



## Timothy A. Redl, Ph.D.

## Curriculum Vitae

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Dept. of Mathematics and Statistics (MS; formerly CMS)  
University of Houston-Downtown (UHD)  
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### PROFESSIONAL OBJECTIVE

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To teach and research mathematics, math education, applied mathematics, or a related field at the college or university level, and to continue to pursue excellence in teaching, scholarly/creative activities, service, and leadership to my university, department, college, and to my profession to the best of my abilities.

### CURRENT POSITIONS

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**University of Houston-Downtown**, Houston, TX

Professor of Mathematics, MS Department, Fall 2020-present

Chair, MS Department, Fall 2024-present

### EDUCATION

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**Rice University**, Houston, TX

Ph.D. in Computational & Applied Mathematics (CAAM), 2004

Dissertation: *A Study of University Timetabling that Blends Graph Coloring with the Satisfaction of Various Essential and Preferential Conditions*;  
Advisors: Dr. Nathaniel Dean and Dr. Richard Tapia

M.A. in Computational & Applied Mathematics (CAAM), 2003

Relevant coursework: Graph Theory, Combinatorial Optimization, Operations Research, Integer & Linear Programming, Optimization Theory

**Dartmouth College**, Hanover, NH

A.B. in Mathematics with a minor in Operations Research, 1997

Graduated *cum laude*

### TEACHING EXPERIENCE

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**University of Houston-Downtown**, Houston, TX

Professor of Mathematics: MS Dept., Fall 2020-present

Faculty Teaching Fellow, College of Sciences and Technology, Fall 2021-Summer 2023

Associate Professor of Mathematics: CMS/MS Dept., Fall 2011-Summer 2020

Assistant Professor of Mathematics: CMS Dept., Fall 2005-Summer 2011

Courses taught/co-taught:

Transitional courses

MATH 0010: NCBO Math Readiness Option (Online) – *Spring Mini 2021, Summer Mini 2021, Spring Mini 2022, Spring 2022, Summer Mini 2022,*

*Fall 2022, Spring Mini 2023, Spring 2023, Summer Mini 2023, Fall 2023,  
Spring Mini 2024, Summer Mini 2024, Spring Mini 2025, Summer Mini 2025*  
MATH 1300: Intermediate Algebra – *Fall 2005 (2 sections), Spring 2006 (2 sections),  
Summer I 2006*

Undergraduate courses

MATH 1301: College Algebra (Honors) – *Fall 2015, Fall 2016, Fall 2017, Fall 2018,  
Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023*  
MATH 1301: College Algebra – *Fall 2006 (2 sections), Spring 2007 (2 sections),  
Spring 2010, Fall 2010, Spring 2011 (Hybrid), Fall 2011 (Online), Fall 2012,  
Spring 2013*  
MATH 1305: Finite Mathematics with Applications – *Fall 2005, Spring 2006, Fall 2006,  
Spring 2007, Fall 2007 (2 sections), Spring 2008 (2 sections), Fall 2008,  
Spring 2009, Summer II 2009, Summer III 2010, Summer I 2011, Summer III 2011,  
Summer I 2016, Spring 2017, Summer I 2017 (Online), Fall 2017 (Online),  
Spring 2018 (Online), Summer I 2018 (Online), Fall 2018 (Online),  
Spring 2019 (Online), Fall 2019 (Online)*  
MATH 1306: Fundamentals of Calculus with Applications – *Fall 2007, Spring 2008,  
Fall 2008 (2 sections), Spring 2009, Fall 2009 (2 sections),  
Spring 2010 (2 sections), Fall 2010, Spring 2011 (2 sections),  
Fall 2011 (2 sections), Spring 2013, Fall 2014, Fall 2020*  
MATH 1505: Precalculus with Trigonometry (Honors) – *Spring 2025*  
MATH 1505: Precalculus with Trigonometry – *Spring 2019, Fall 2019,  
Spring 2020 (Hybrid)*  
MATH 2301: Introduction to Computational Mathematics – *Spring 2008, Fall 2008,  
Spring 2009, Spring 2010, Spring 2011, Spring 2015*  
MATH 2401: Calculus I – *Spring 2012, Fall 2013, Fall 2014, Fall 2016, Spring 2017,  
Fall 2017, Spring 2018, Spring 2021, Spring 2024*  
MATH 2405: Discrete Mathematics – *Spring 2015*  
MATH 3321: Math Concepts I – *Summer III 2015, Summer I 2017,  
Summer I 2019 (Online), Spring 2022 (Online), Summer I 2023 (Online)*  
MATH 3322: Math Concepts II – *Fall 2005, Spring 2006, Summer I 2006, Fall 2006,  
Spring 2007, Summer II 2007, Fall 2007, Summer I 2008, Summer I 2009,  
Summer II 2009, Summer III 2010, Summer I 2011, Summer III 2011,  
Summer III 2012, Summer III 2013, Summer III 2014, Summer III 2016,  
Spring 2020, Summer I 2020 (Online), Spring 2021 (Online), Fall 2021 (Online),  
Summer 2 2022 (Online), Fall 2022 (Online), Spring 2023 (HyFlex & Online),  
Summer 2 2023 (Online), Fall 2023 (Online), Spring 2024 (Online),  
Summer 2 2024 (Online)*  
MATH 3394: Undergraduate Research – *Fall 2015, Spring 2025*  
MATH 4095: Senior Project in Mathematics Education – *Fall 2022, Spring 2023,  
Fall 2023*  
MATH 4395: Senior Project in Mathematics – *Fall 2015*  
STAT 4303/MATH 4316: Decision Mathematics – *Fall 2009, Spring 2012,  
Summer I 2014, Spring 2016, Spring 2018, Fall 2020, Fall 2022,  
Spring 2024 (Directed Study), Fall 2024, Spring 2025 (Online)*

STAT 4311/MATH 4311: Operations Research – *Summer I 2007, Spring 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2015, Fall 2018, Fall 2021, Fall 2023, Fall 2025*

STAT 4395: Senior Project in Statistics – *Fall 2016*

UHD 1302: Freshman Seminar in Mathematics – “Let’s Do the Math” (w/ J. Quander) – *Fall 2019*

UHD 1302: Freshman Seminar in Mathematics – “What Are the Odds? Mathematics in Games, Sports, and Gambling” – *Fall 2020*

UHD 2302: University Seminar in Mathematics – “What Are the Odds? Mathematics in Games, Sports, and Gambling” – *Spring 2016*

#### Graduate courses

MATH 5321: Operations Research – *Fall 2023 (Online)*

MATH 5390/STAT 6390: Special Topics in Decision Mathematics – *Summer I 2021 (Online)*

MATH 5390/STAT 6390: Special Topics in Operations Research – *Summer I 2022 (Online)*

MATH 6302: Mathematical Structures for Teachers (w/ J. Sack) – *Summer III 2012*

MATH 6304: Combinatorics and Probability for Teachers (w/ J. Sack) – *Summer III 2013*

MATH 6318: Special Topics for Teachers (w/ J. Sack) – *Spring 2014*

MATH 6399: Directed Study in Mathematics – *Spring 2020*

MAT 6180/6280: Practicum for Urban Teachers (w/ J. Sack) – *Fall 2012, Spring 2013*

MAT 6316: Advanced Methods for the Culturally Diverse Classroom (w/ J. Sack) – *Fall 2013*

#### **Rice University, Houston, TX**

Lecturer: CAAM Dept., Fall 2001, Fall 2004-Spring 2005

Courses taught:

CAAM 210: Introduction to Engineering Computation

CAAM 376: Introduction to Management Science

CAAM 378: Introduction to Operations Research & Optimization

CAAM 475: Combinatorial Optimization

#### Cain Project in Engineering and Professional Communication Presentations Coach,

Spring 2002-Spring 2004

Videotaped students' oral presentations and provided constructive feedback on both practice and formal class presentations for graduate seminars in computational and applied mathematics, biochemistry and cell biology, and bioengineering.

#### CAAM Department Teaching Assistant / Grader, Fall 1997-Fall 2000

Graded papers and occasionally lectured for undergraduate courses in graph theory, operations research, management science, and numerical analysis. Assisted individual students during weekly office hours.

**Lone Star College-CyFair (formerly Cy-Fair College), Cypress, TX**  
Adjunct Instructor: Math Dept., Spring 2004-Summer 2006

Courses taught:

MATH 1314: College Algebra

MATH 1316: Trigonometry

MATH 1325: Elements of Calculus with Applications

MATH 2412: Precalculus

**Independent Tutoring, Houston, TX**

College and High School Tutor: Fall 1997-Spring 2013

Tutored college students in calculus, college algebra, finite mathematics, and THEA and GRE preparation. Tutored high school students in algebra, geometry, pre-calculus, and SAT preparation.

## **ACADEMIC PUBLICATIONS**

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### **Refereed Journal Publications and Book Chapters**

1. T. Duong and **T. Redl**, Taking Advantage of Advanced Placement (AP) Statistics for College Admission: A Study of High School Students in the Houston Area. To appear in *The Princeton Journal of Interdisciplinary Research (PJIR)*, 2025.
2. J. Quander and **T. Redl**, Early Field Experiences for STEM Undergraduates: A Possible Pathway into Teaching. *Journal of STEM Teacher Education*, Volume 56, Issue 2, Article 4, 2021, pp. 51-61.
3. **T. Redl**, Accelerating Students Successfully through Developmental and College-Level Mathematics and Embracing Co-Requisite Models: An 8-week + 8-week Model. *Journal of Education and Social Development*, Volume 4, Number 2, December 2020, pp. 17-21.
4. J. Quander, J. Sack, and **T. Redl**, Learning Through Co-teaching as Critical Friends. Book chapter in *Cross-Disciplinary, Cross-Institutional Collaboration in Teacher Education: Cases of Learning and Leading*, edited by Cheryl J. Craig, Laura B. Turchi, and Denise McDonald. Springer Nature Switzerland AG, 2020, pp. 241-255.
5. J. Sack, J. Quander, **T. Redl**, and N. Leveille, The Community of Practice among Mathematics and Mathematics Education Faculty Members at an Urban Minority Serving Institution in the U.S. *Innovative Higher Education*, Volume 41, Number 2, April 2016, pp. 167-182.
6. N. Leveille, J. Quander, **T. Redl**, K. Orta, K. Carlton, and J. Sack, Developing Research Practitioners: Senior Projects for Pre-service Teachers. Proceedings of the 13th International Conference of the Mathematics Education for the Future Project: Mathematics Education in a Connected World, Catania, Sicily, Italy, September 2015.

7. **T. Redl**, Coloring Integral Distance Graphs with Finite Distance Sets. *Congressus Numerantium* **202** (2010), pp. 65-73.
8. **T. Redl**, On Using Graph Coloring to Create University Timetables with Essential and Preferential Conditions. *Advances in Marketing, Management and Finances*, Proceedings of the 3rd International Conference on Management, Marketing and Finance (International Conference on Computational and Information Sciences), University of Houston-Downtown, Houston, TX, April 2009, pp. 162-167.
9. **T. Redl**, University Timetabling via Graph Coloring: An Alternative Approach. *Congressus Numerantium* **187** (2007), pp. 174-186.
10. A. Drake and **T. Redl**, On the Enumeration of a Class of Non-Graceful Graphs. *Congressus Numerantium* **183** (2006), pp. 175-184.
11. **T. Redl**, Graceful Graphs and Graceful Labelings: Two Mathematical Programming Formulations and Some Other New Results. *Congressus Numerantium* **164** (2003), pp. 17-31.

### Other Publications

12. **T. Redl**, A case study of the success of MyMathLab in a Fundamentals of Calculus with Applications course at the University of Houston-Downtown. Appears in *Making the Grade, V.4: How to Improve Your MyMathLab Implementation through Presentation + Best Practices*, edited by Michelle D. Speckler, Pearson (2010), pp. 42-43, and *Making the Grade, V.5: 77 data-driven case studies illustrating how the MyMathLab family of products supports student achievement*, edited by Michelle D. Speckler, Pearson (2012), pp. 66-67.
13. **T. Redl**, *A Study of University Timetabling that Blends Graph Coloring with the Satisfaction of Various Essential and Preferential Conditions*, Ph.D. Thesis, Department of Computational and Applied Mathematics, Rice University, May 2004, 159 pages.

### GRANTS AWARDED

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#### External Grants

1. **CRSM-2024: College Readiness and Success Models Program**  
 PI: **T. Redl**; Co-PI: D. Scharold  
 Texas Higher Education Coordinating Board (THECB), 2024-2026  
**Grant amount: \$124,926.20**
2. **CRCM-2021: College Readiness and Completion Models Program**  
 PI: D. Scharold; Co-PI: **T. Redl**  
 Texas Higher Education Coordinating Board (THECB), 2021-2023  
 No-cost extension awarded through August 2024  
**Grant amount: \$99,995**

3. **Steelcase Education Active Learning Center Grant**  
 PI: G. Dement; Co-PIs: J. Quander, **T. Redl**  
 Steelcase Education, 2021-2022  
**Grant amount: \$132,000**
  
4. **CRSM-2020: Comprehensive College Readiness and Success Models for 60x30TX**  
 PI: **T. Redl**; Co-PI: D. Scharold  
 Texas Higher Education Coordinating Board (THECB), 2020-2021  
 No-cost extension awarded through January 2022  
**Grant amount: \$99,503**
  
5. **CRSM-2018: Comprehensive College Readiness and Success Models for 60x30TX**  
 PI: **T. Redl**; Co-PI: D. Scharold  
 Texas Higher Education Coordinating Board (THECB), 2018-2020  
 No-cost extension awarded through January 2021  
**Grant amount: \$103,878**
  
6. **CRSM-2016: Comprehensive College Readiness and Success Models for 60x30TX**  
 PI: **T. Redl**  
 Texas Higher Education Coordinating Board (THECB), 2016-2018  
 No-cost extension awarded through January 2019  
**Grant amount: \$104,527**
  
7. **UHD Teacher Quality Mathematics Leadership Project**  
 PI: J. Sack; Co-PI: **T. Redl**  
 Texas Higher Education Coordinating Board (THECB), 2012-2014  
**Grant amount: \$229,651**
  
8. **Recruiting and Preparing UHD Mathematics Majors for Houston-Area Classrooms: The UHD Noyce Mathematics Teacher Scholarship Program**  
 PI: J. Quander; Co-PIs: **T. Redl**, J. Sack, N. Leveille, M. Connell  
 National Science Foundation (NSF), 2011-2016  
 No-cost extensions awarded for AY 2016-2017, 2017-2018, 2018-2019, 2019-2020  
**Grant amount: \$1,079,257**

**Internal Grants (UHD)**

1. **Course Innovation Initiative for MATH 1324: Mathematics for Business and the Social Sciences, Year 3**  
 Team Lead: S. Beane; Course Design Team Members: B. John, I. Lazo, V. Nguyen,  
**T. Redl**  
 UHD Center for Teaching and Learning Excellence (CTLE), 2024-2025  
**Grant amount: \$10,000**

- 2. Course Innovation Initiative for MATH 1324: Mathematics for Business and the Social Sciences, Year 2**  
 Team Lead: S. Beane; Course Design Team Members: J. Hallaway, B. John, I. Lazo, V. Nguyen, **T. Redl**  
 UHD Center for Teaching and Learning Excellence (CTLE), 2023-2024  
**Grant amount: \$10,000**
- 3. Is Eight Enough? A Look at Eight-Week Concentrated Core Course Cohorts in College Algebra and Composition Teaching Circle**  
 Team Lead: **T. Redl**; Teaching Circle Members: B. Blumberg, K. Nguyen, M. Mata, D. Scharold, H. Seratt  
 UHD Center for Teaching and Learning Excellence (CTLE), 2022-2023  
 No-cost extension awarded through June 2024  
**Grant amount: \$3,883.75**
- 4. Course Innovation Initiative for MATH 1324: Mathematics for Business and the Social Sciences**  
 Team Lead: S. Beane; Course Design Team Members: L. Campbell, J. Hallaway, B. John, K. Nguyen, **T. Redl**  
 UHD Center for Teaching and Learning Excellence (CTLE), 2022-2023  
**Grant amount: \$10,000**
- 5. Course Innovation Initiative: Teaching Mathematics Using Inquiry-Based Learning in an Active Learning Classroom**  
 Team Leads: **T. Redl** and J. Quander  
 UHD Center for Teaching and Learning Excellence (CTLE), 2021-2023  
 No-cost extension awarded through June 2024  
**Grant amount: \$20,000**
- 6. Creating an Updated Great Books Curriculum in the Honors Program Teaching Circle**  
 Team Lead: G. Preuss; Teaching Circle Members: P. Mandell, **T. Redl**, T. Thomas  
 UHD Center for Teaching and Learning Excellence (CTLE), 2021-2022  
**Grant amount: \$3,850**
- 7. Using Inquiry-Based Learning Instruction to Increase Persistence and Retention in Mathematics Courses for STEM Majors Teaching Circle**  
 Team Lead: **T. Redl**; Teaching Circle Members: C. Garza, K. Jegdic, J. Nganou, J. Quander, J. Yoon, V. Zafiris  
 UHD Center for Teaching and Learning Excellence (CTLE), 2019-2021  
**Grant amount: \$10,375**

- 8. VoiceThread Certified Education and Application in Online/Hybrid Courses Across Disciplines Teaching Circle**  
Team Lead: S. Henney; Teaching Circle Members: S. Connors, P. Mandell, J. Quander, **T. Redl**, A. Roncancio  
UHD Center for Teaching and Learning Excellence (CTLE), 2019-2020  
**Grant amount: \$4,128**
- 9. Course Innovation Initiative for PHYS 1307: General Physics I**  
Team Lead: S. Krishna/L. Sterna; Course Design Team Members: J. Gandhi, J. Grebowicz, **T. Redl**  
UHD Center for Teaching and Learning Excellence (CTLE), 2018-2019  
**Grant amount: \$19,453**
- 10. Engaging Instructors in the MATH 1310 Classroom Teaching Circle**  
Team Lead: S. Beane; Teaching Circle Members: B. Blumberg, B. John, V. Nguyen, **T. Redl**, F. Solomon  
UHD Center for Teaching and Learning Excellence (CTLE), 2017-2018  
**Grant amount: \$3,923**
- 11. MATH 1310 Innovative Course Improvement Teaching Circle**  
Team Lead: S. Beane; Teaching Circle Members: B. Blumberg, B. John, V. Nguyen, **T. Redl**, F. Solomon  
UHD Center for Teaching and Learning Excellence (CTLE), 2016-2017  
**Grant amount: \$3,965**
- 12. Course Innovation Initiative for MATH 2401: Calculus I**  
Team Lead: S. Koshkin; Course Design Team Members: L. Becerra, V. Hrynkiv, T. Kaur, R. Pepper, **T. Redl**, P. Simeonov, J. Yoon  
UHD Center for Teaching and Learning Excellence (CTLE), 2016-2017  
**Grant amount: \$18,967.50**
- 13. Course Innovation Initiative for MATH 1306: Fundamentals of Calculus with Applications**  
Team Lead: S. London; Course Design Team Members: S. Coy, B. John, S. Koshkin, K. Muire, O. Paskelian, **T. Redl**, S. Xie  
UHD Center for Teaching and Learning Excellence (CTLE), 2016-2017  
**Grant amount: \$15,742.50**
- 14. A Community of Practice for College Algebra Faculty**  
PI: **T. Redl**; Co-PIs: J. Quander, J. Sack  
UHD Center for Teaching and Learning Excellence (CTLE), 2015-2016  
**Grant amount: \$20,000**



## 15. Engagement and Success in Calculus I Teaching Circle

Team Lead: S. Koshkin; Teaching Circle Members: V. Hrynkiv, A. Pati, R. Pepper,  
**T. Redl**, P. Simeonov

UHD Center for Teaching and Learning Excellence (CTLE), 2014-2015

**Grant amount: \$4,025**

### ACADEMIC PRESENTATIONS/TALKS/POSTERS

- “Get it? Got it? Good! Checking for Student Understanding in Online Learning”, Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Teaching Café, University of Houston-Downtown, Houston, TX (April 2023)
- “Teaching Mathematics through Inquiry in a Steelcase Active Learning Classroom” (with J. Quander and J. Hallaway), Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2022)
- “Hello? Is It Me You’re Looking For? Faculty and Student Introductions in Your Course”, Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Teaching Café, University of Houston-Downtown, Houston, TX (April 2022)
- “Always on my Mind: Course Structure and Alignment, LEM”, Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Teaching Café, University of Houston-Downtown, Houston, TX (April 2022)
- “Accelerating Students Successfully through Developmental and College-Level Mathematics and Embracing Co-Requisite Models: An 8-week + 8-week Model”, 2020 International Conference on Education and Social Development (ICESD’20), Lone Star College, The Woodlands, TX (March 2020)
- “zyBooks: An interactive mathematics textbook”, 2019 Technology Learning Conference, University of Houston-Downtown, Houston, TX (October 2019)
- “Deck of Cards” Workshop, MATH 1310 Innovative Course Improvement Teaching Circle, University of Houston-Downtown, Houston, TX (April 2018)
- “Accelerating Students Successfully through Developmental and College-Level Mathematics: The 8-week/8-week Model”, 2018 John N. Gardner Institute Gateway Course Experience Conference, Houston, TX (March 2018)
- “Mathematics and Magic... and maybe even a little Mentalism”, MS Department Elias Deeba Speaker Series, University of Houston-Downtown, Houston, TX (April 2017)
- “Teaching Honors College Algebra with Inquiry-Based Instruction at the University of Houston-Downtown”, 2017 Joint Mathematics Meetings, Atlanta, GA (January 2017)

- “Building a Community of Practice to Develop and Integrate Innovative Instructional Strategies in College Algebra Classes at the University of Houston-Downtown” (with J. Quander), 2017 Joint Mathematics Meetings, Atlanta, GA (January 2017)
- Poster: “Recruiting and Preparing Mathematics Majors for Houston-Area Classrooms: The University of Houston-Downtown Noyce Mathematics Teacher Scholarship Program” (with J. Quander), 2017 Joint Mathematics Meetings, Atlanta, GA (January 2017)
- “What Are the Odds? Mathematics in Games, Sports, and Gambling: A University Seminar”, Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2016)
- “Teaching an Honors College Algebra Course at UHD”, Round-Table Discussion at the Center for Teaching and Learning Excellence (CTLE) High Impact Practices (HIPs) Showcase, University of Houston-Downtown, Houston, TX (April 2016)
- “What Have We Done with \$1.1 Million???” (with J. Quander and J. Sack), MS Department Elias Deeba Speaker Series, University of Houston-Downtown, Houston, TX (March 2016)
- “Teaching with Technology in an Honors College Algebra Course”, 2016 Technology Learning Conference, University of Houston-Downtown, Houston, TX (March 2016)
- Poster: “Recruiting and Preparing Mathematics Majors for Houston-Area Classrooms: The University of Houston-Downtown Noyce Mathematics Teacher Scholarship Program”, 2015 Joint Mathematics Meetings, San Antonio, TX (January 2015)
- “The UHD Teacher Quality High Impact Experience in Middle School Mathematics Classrooms: Year Two”, 3rd Annual High Impact Practices Showcase, University of Houston-Downtown, Houston, TX (April 2014)
- Poster: “Recruiting and Preparing Mathematics Majors for Houston-Area Classrooms: The University of Houston-Downtown Noyce Mathematics Teacher Scholarship Program”, 2014 Joint Mathematics Meetings, Baltimore, MD (January 2014)
- “The UHD Teacher Quality High Impact Experience in Middle School Mathematics Classrooms” (with J. Sack), 2nd Annual High Impact Practices Showcase, University of Houston-Downtown, Houston, TX (April 2013)
- “Using MyMathLab Effectively for Online Homework in College Algebra and Calculus”, 2013 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2013)

- “This is Not Your Grandfather’s Geometry”, (with J. Quander, N. Leveille, J. Sack, and M. Connell), CMS Dept. Elias Deeba Memorial Seminar, University of Houston-Downtown, Houston, TX (April 2013)
- “Recruiting and Preparing Mathematics Majors for Houston-Area Classrooms: The University of Houston-Downtown Noyce Mathematics Teacher Scholarship Program”, 2013 Joint Mathematics Meetings, San Diego, CA (January 2013)
- “Thinking Outside the Building: CMS and Urban Ed Collaborations” (with J. Quander, N. Leveille, J. Sack, and M. Connell), CMS Dept. Elias Deeba Memorial Seminar, University of Houston-Downtown, Houston, TX (October 2011)
- “Faculty Technology Show and Share: MyMathLab Online Homework”, 2011 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2011)
- “LaTeX Workshop for Students and Faculty”, University of Houston-Downtown, Houston, TX (February 2011)
- “Senior Projects in Computational Mathematics with MATLAB at the University of Houston-Downtown”, MathFest 2010, Pittsburgh, PA (August 2010)
- “Authoring Conceptual Questions for College Algebra Using the MyMathLab Custom Exercise Builder” (co-taught with L. Becerra and B. Waller). Minicourse at the 22nd International Conference on Technology in Collegiate Mathematics (ICTCM), Chicago, IL (March 2010)
- “On Using Graph Coloring to Create University Timetables with Essential and Preferential Conditions”, International Conference on Computational and Information Sciences (ICCIS), University of Houston-Downtown, Houston, TX (April 2009)
- “Development and Analysis of a New Course in Computational Mathematics with MATLAB at the University of Houston-Downtown”, 2009 Joint Mathematics Meetings, Washington, D.C. (January 2009)
- “Critical Thinking in College Algebra”, Invited Talk, GEAR UP Middle Schools / UHD Academic Literacy Symposium, University of Houston-Downtown, Houston, TX (January 2008)
- “University Timetabling via Graph Coloring: An Alternative Approach”, 38th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC38), Florida Atlantic University, Boca Raton, FL (March 2007)
- “On the Enumeration of a Class of Non-Graceful Graphs”, 37th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC37), Florida Atlantic University, Boca Raton, FL (March 2006)

- “Graceful Graph Labelings: Recent Results”, CAAM Dept. Graduate Research Seminar, Rice University, Houston, TX (October 2004)
- “Computing Graceful Labelings of Graphs”, 34th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC34), Florida Atlantic University, Boca Raton, FL (March 2003)
- “University Timetabling and Graph Coloring -- Theory and Practice”, 2003 Joint Mathematics Meetings, Baltimore, MD (January 2003)
- “Graceful Graphs and Graceful Labelings”, CAAM Department Graduate Research Seminar, Rice University, Houston, TX (October 2002)
- “Timetabling and Graph Coloring -- Theory and Practice”, 11th SIAM Conference on Discrete Mathematics, San Diego, CA (August 2002)

## **PROFESSIONAL CONFERENCES/WORKSHOPS ATTENDED**

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### **Academic Conferences**

- 2025 Teaching Professor Conference, Washington, D.C. (June 2025)
- 24th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2025)
- 2024 Teaching Professor Conference, New Orleans, LA (June 2024)
- 23rd Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2024)
- 2023 Teaching Professor Online Conference (October 2023)
- 2023 Teaching Professor Conference, New Orleans, LA (June 2023)
- 22nd Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2023)
- 21st Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2022)
- 20th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2021)
- 2020 HCC Virtual Corequisite Conference, Houston Community College, Houston, TX (October 2020)
- 19th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2020)
- 2020 International Conference on Education and Social Development (ICESD’20), Lone Star College, The Woodlands, TX (March 2020)
- “Corequisite Courses: A Journey to Success”, Houston Community College West Houston Institute, Houston, TX (June 2019)
- 18th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2019)
- CAMT 2018: Conference for the Advancement of Mathematics Teaching, Houston, TX (July 2018)

- 17th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2018)
- 2018 John N. Gardner Institute Gateway Course Experience Conference, Houston, TX (March 2018)
- 16th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2017)
- 2017 Joint Mathematics Meetings, Atlanta, GA (January 2017)
- 15th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2016)
- 14th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2015)
- 2015 Joint Mathematics Meetings, San Antonio, TX (January 2015)
- 13th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2014)
- 2014 Joint Mathematics Meetings, Baltimore, MD (January 2014)
- CombinaTexas 2013, University of Houston-Downtown, Houston, TX (April 2013)
- 12th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2013)
- 2013 Joint Mathematics Meetings, San Diego, CA (January 2013)
- 11th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2012)
- 10th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2011)
- 6th Annual Texas Undergraduate Mathematics Conference (TUMC), University of Texas at Tyler, Tyler, TX (October 2010)
- MathFest 2010, Pittsburgh, PA (August 2010)
- 9th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2010)
- American Mathematical Association of Two-Year Colleges (AMATYC) 35th Annual Conference, Las Vegas, NV (November 2009)
- International Conference on Computational and Information Sciences (ICCIS), University of Houston-Downtown, Houston, TX (April 2009)
- 8th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2009)
- 2009 Joint Mathematics Meetings, Washington, D.C. (January 2009)
- Cyberinfrastructure (CI) Day @ UHD, University of Houston-Downtown, Houston, TX (November 2008)
- 7th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2008)
- 6th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2007)
- 38th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC38), Florida Atlantic University, Boca Raton, FL (March 2007)
- 5th Annual UHD Student Research Conference, University of Houston-Downtown, Houston, TX (April 2006)

- 37th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC37), Florida Atlantic University, Boca Raton, FL (March 2006)
- 2006 Joint Mathematics Meetings, San Antonio, TX (January 2006)
- 34th Southeastern International Conference on Combinatorics, Graph Theory and Computing (CGTC34), Florida Atlantic University, Boca Raton, FL (March 2003)
- 2003 Joint Mathematics Meetings, Baltimore, MD (January 2003)
- 11th SIAM Conference on Discrete Mathematics, San Diego, CA (August 2002)

### **Teaching and Educational Workshops**

- “Level Up in STEM Math: Building Math Skills Through Mastery and Retention” McGraw-Hill Webinar (March 2025)
- “Educator Stories: Coreq Models That Drive Student Success” McGraw-Hill Webinar (February 2025)
- 2024 Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Annual Meeting, Washington, D.C. (December 2024)
- “The CircleIn-Novation Summit” (November 2024)
- “Placement Data and Corequisite Courses: Best Practices in Identifying Who and How to Succeed in a Corequisite Course” McGraw-Hill Webinar (October 2024)
- “Building Equitable Outcomes for Corequisite Gateway Courses” McGraw-Hill Webinar (October 2024)
- McGraw Hill ALEKS Math Symposium, Washington, D.C. (October 2024)
- “Gator Learning: Building Strong Student-Staff Relationships”, University of Houston-Downtown, Houston, TX (June 2024)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium: “Digital Strategies and AI in Teaching & Learning”, University of Houston-Downtown, Houston, TX (April 2024)
- “Overcoming Math Anxiety” Workshop, University of Houston-Downtown, Houston, TX (February 2024)
- “Designing for Math in an Active Learning Environment” Workshop led by Dr. Robert Talbert from Grand Valley State University, Allendale, MI, University of Houston-Downtown, Houston, TX (August 2023)
- 2023 WebAssign Summer of Learning Webinar Series (July 2023)
- Association for College and University Educators (ACUE) “Promoting Active Learning Online” (June-July 2023)
- Association for College and University Educators (ACUE) “Inspiring Inquiry and Lifelong Learning in Your Online Course” (March-May 2023)
- Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Teaching Café, University of Houston-Downtown, Houston, TX (April 2023)
- Association for College and University Educators (ACUE) “Creating an Inclusive and Supportive Online Learning Environment” (January-March 2023)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2022)
- Online Learning Consortium (OLC) “Getting Started with Hybrid-Flexible (HyFlex) Course Design” Online Workshop (June 2022)

- REMOTE: The Connected Faculty Summit Virtual Conference (June 2022)
- Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Teaching Café, University of Houston-Downtown, Houston, TX (April 2022)
- “Panopto Lunch and Learn” Virtual Workshop (March 2022)
- “Inclusive Pedagogy and Classroom Transformation” Houston GPS Virtual Workshop (October 2021)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (October 2021)
- Center for the Analysis of Postsecondary Readiness (CAPR) and Texas Higher Education Coordinating Board (THECB) Multiple Measures Assessment Convening (October 2021)
- VoiceThread “Using VoiceThread in Blackboard” Virtual Workshop (July 2021)
- VoiceThread “New Assignment Features” Virtual Workshop (July 2021)
- “Designing Class for Active Learning” Virtual Workshop (May 2021)
- Blackboard “BbWorld 2020” Interactive Online Conference (July 2020)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2019)
- UHD/Association for College and University Educators (ACUE) Online Course in Effective Teaching Practices (September 2019 – May 2020)
- 2019 Technology Learning Conference, University of Houston-Downtown, Houston, TX (October 2019)
- “VoiceThread Certified Educator” 2-week Online Training Course (July 2019)
- Blackboard “Waltz Across Texas” Roadshow, University of Houston-Downtown, Houston, TX (June 2019)
- “Zoom Basics” Gator Learning Session, University of Houston-Downtown, Houston, TX (June 2019)
- Macmillan Publishers Pre-Statistics Co-Requisite Retreat, Austin, TX (March 2019)
- “VoiceThread: Engage Students with Multimedia Discussions & Presentations” Training Session, University of Houston-Downtown, Houston, TX (December 2018)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2018)
- TeachLunch: “Avoiding Roadblocks When Going Online”, University of Houston-Downtown, Houston, TX (October 2018)
- Developmental Education Summit, Lone Star College-CyFair, Cypress, TX (March 2018)
- Center for Teaching and Learning Excellence (CTLE) Course Innovation Initiative Launch Workshop, University of Houston-Downtown, Houston, TX (February 2018)
- Texas Higher Education Coordinating Board (THECB) “Acceleration Institute”, Texas State University-Round Rock, Round Rock, TX (April 2017)
- Center for Teaching and Learning Excellence (CTLE) Teaching and Learning Symposium, University of Houston-Downtown, Houston, TX (November 2016)

- “What Can I Learn From Student Ratings?” Magna Video Training Course, Center for Teaching and Learning Excellence (CTLE), University of Houston-Downtown, Houston, TX (September 2016)
- Center for Teaching and Learning Excellence (CTLE) High Impact Practices (HIPs) Showcase, University of Houston-Downtown, Houston, TX (April 2016)
- University of Houston System Innovative Teaching and Learning Symposium, University of Houston, Houston, TX (April 2016)
- 2016 Technology Learning Conference, University of Houston-Downtown, Houston, TX (March 2016)
- Houston Guided Pathways to Success (GPS) Spring Planning Academy, University of Houston, Houston, TX (February 2016)
- Center for Teaching and Learning Excellence (CTLE) Learning Ecologies Course Design Workshop, University of Houston-Downtown, Houston, TX (November 2015)
- Houston Guided Pathways to Success (GPS) Fall Planning Academy, University of Houston, Houston, TX (September 2015)
- Online Learning Consortium (OLC) “New to Online: The Essentials” Online Workshop (August 2015)
- Community of Practice for College Algebra Faculty Professional Development Workshop, University of Houston-Downtown, Houston, TX (August 2015)
- Center for Teaching and Learning Excellence (CTLE) Showcase, University of Houston-Downtown, Houston, TX (April 2015)
- 2015 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2015)
- 3rd Annual High Impact Practices Showcase, University of Houston-Downtown, Houston, TX (April 2014)
- 2014 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2014)
- “New Horizons in Texas STEM Education” Conference, San Antonio, TX (March 2014)
- Pearson Precalculus Forum, San Francisco, CA (March 2014)
- “Developmental Mathematics: The Challenge of Change” Cengage TeamUP Redesign Workshop, Houston, TX (February 2014)
- “Mathapalooza” Pearson Professional Development Workshop, Houston Community College-Southeast, Houston, TX (October 2013)
- 2nd Annual Peer-Led Team Learning International Society Conference, University of Houston-Downtown, Houston, TX (May 2013)
- 2013 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2013)
- “Approaching Change: Readiness & Redesign in the Lone Star State” Faculty Forum, Austin, TX (February 2013)
- College and Career Readiness Partnership Initiative in Mathematics, Montgomery Community College, The Woodlands, TX (November 2012 and February 2013)
- “Mathematics: The Greatest Common Factor for Success” Brooks/Cole TeamUP Faculty Workshop, Houston, TX (October 2012)



- “Using Technology in the Classroom” Professional Development Workshop, University of Houston-Downtown, Houston, TX (May 2012)
- “FOCUS on the Future of Developmental Education” Symposium, Texas State University-San Marcos, San Marcos, TX (January 2012)
- 2011 Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Annual Meeting, Orlando, FL (December 2011)
- Advancement via Individual Determination (AVID) Workshop in “Delivering Success”, University of Houston-Downtown, Houston, TX (November 2011)
- Texas Higher Education Coordinating Board Student Success Summit, University of Houston, Houston, TX (September 2011)
- 2011 Educational Leadership Summit, University of Houston, Houston, TX (May 2011)
- Advancement via Individual Determination (AVID) Workshop in “Integrating High Engagement Strategies”, University of Houston-Downtown, Houston, TX (April 2011)
- 2011 Technology Learning Conference, University of Houston-Downtown, Houston, TX (April 2011)
- “Changing Times, Changing Students” Professional Development Workshop for Math and Statistics, Houston Community College, Houston, TX (November 2010)
- Advancement via Individual Determination (AVID) Postsecondary Project Workshop, University of Houston-Downtown, Houston, TX (October 2010)
- “Implementing Differentiated Instruction in Higher Education” Workshop, University of Houston-Downtown, Houston, TX (May 2010)
- 22nd International Conference on Technology in Collegiate Mathematics (ICTCM), Chicago, IL (March 2010)
- College Readiness Initiative Faculty Collaborative: Mathematics Symposium, Austin, TX (November 2008)
- UHD Quality Enhancement Plan (QEP) Council Learning and Teaching Seminar, University of Houston-Downtown, Houston, TX (November 2008)
- GEAR UP Middle Schools / UHD Academic Literacy Symposium, University of Houston-Downtown, Houston, TX (January 2008)
- “Math and Science Hands-On Technology” Brooks/Cole Workshop, San Diego, CA (March 2007)
- “Achieving Student Success in the College Mathematics Classroom” Houghton Mifflin TeamUP Faculty Conference, Houston, TX (February 2007)
- “Improving the Learning Environment” Title V Instructional Math Technology Expo, Houston, TX (January 2007)
- “Visualizing the Future of Mathematics Education” Workshop, Orlando, FL (December 2006)

## **RESEARCH, ADVISING, AND CONSULTING EXPERIENCE**

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**University of Houston-Downtown, Houston, TX**

### Undergraduate Senior Project Faculty Research Advisor for 37 students:

1. Varsha Srikanth Banu, “Variations of Nim and other Combinatorial Games”, Fall 2025
2. Thomas Duong. “Take Advantage of Advanced Placement (AP) Statistics for College Admission: A Study of High School Students in the Houston Area”, Fall 2024
  - ❖ Poster at Houston-LSU-Texas A&M Undergraduate Mathematics Research Conference, March 2025
  - ❖ Poster at 44<sup>th</sup> Annual Conference of Texas Statisticians (COTS), March 2025
  - ❖ Poster at Capitol Texas Undergraduate Research Conference, March 2025
  - ❖ Poster at 10<sup>th</sup> LSUS Regional Student Scholars Forum, April 2025
  - ❖ Poster at 31<sup>st</sup> Annual Student Conference for Research and Creative Arts, University of Houston-Clear Lake, April 2025
  - ❖ Poster at Lamar University's Annual EXPO of Undergraduate Research and Creative Activities, April 2025
  - ❖ Poster at 24<sup>th</sup> Annual UHD Student Research Conference, April 2025
  - ❖ Poster at “The Past, Present and Future of Statistics in the Era of AI”, Washington, D.C., May 2025
  - ❖ Poster at 2025 MAA MathFest, Sacramento, CA, August 2025
3. Ashley Wright, “New Mathematics Teacher Retention in Houston-Area Schools”, Spring 2024
4. Jocelyn Torres, “Finding Shortest Paths and Matchings in Networks: A Comparison of Algorithms and Applications”, Spring 2023
  - ❖ Poster at 22<sup>nd</sup> Annual UHD Student Research Conference, April 2023
5. Marion Debon, “Solving the Airline Crew Assignment Problem”, Spring 2022
6. Chinaecherem Eze, “Skip the Queue, Use Cafedu: The Beginning of Something Different on College Campuses”, Spring 2021
7. Laura Moses, “Graduation Project Management with Network Optimization for Non-Traditional Students”, Spring 2021
8. Elizabeth Laurence, “Applications of Queuing Theory on Amusement Park Rides”, Spring 2020
9. Marco Murillo, “Hurry Up and Wait: Optimizing United States Air Force 2<sup>nd</sup> Lieutenants’ Air Force Specialty Code (AFSC) and Base Assignments”, Fall 2019
10. Trinh Bui, “Optimal Paths and Cycles in Networks”, Spring 2019
  - ❖ Poster at 18<sup>th</sup> Annual UHD Student Research Conference, April 2019
11. Meagan Grant, “Accountabuddies: Finding an Optimal Assignment of Incoming STEM Students to Mentors”, Spring 2019
  - ❖ Poster at 18<sup>th</sup> Annual UHD Student Research Conference, April 2019
12. Yewande Disu, “WAR... What is it Good For? Predicting Individual and Team Success in Major League Baseball”, Fall 2018
13. Abigail Rivera Garcia, “A Study of Variations on the No-Three-in-Line Problem”, Fall 2018
14. Jorge Duarte, “An Analysis of Probabilities on ‘The Price is Right’”, Spring 2018
15. Sergio Toledo, “A Survey of Software Packages for Teaching Linear Programming”, Spring 2018

16. Aisha Farhadova, "Exploration of Game Theory and the Discovery of the Winning Strategy of NIM", Fall 2017
17. Melody Flores, "Assessing Levels of Risk when Solving a Decision Analysis Investment Problem", Fall 2017
18. Patrick Pineda, "Implementation and Solution of the Traveling Salesman Problem in R", Spring 2017
19. Fernando Oviedo, "Questioning Techniques in a Secondary Mathematics Classroom", Fall 2016
20. Selena Rivas, "Implementing Differentiated Instruction in Secondary Math Classes", Fall 2016
21. Nicole Vargas, "A Historical Analysis of Correlation Among Individual and Team Statistics in Major League Baseball", Fall 2016
22. Gloria Rodriguez, "Introducing the Contributions of Mathematicians in History into High School Classrooms", Spring 2016
23. Putra Chheang, "Creating a MATLAB GUI for Geometry in Two and Three Dimensions", Fall 2015
24. Ana Zertuche, "An Analysis of the Role and Impact of the Supplemental Instruction (SI) Program in Mathematics at the University of Houston-Downtown", Spring 2015
  - ❖ Poster at 14<sup>th</sup> Annual UHD Student Research Conference, April 2015
25. Chad Hart, "Graph Theory Topics in Computer Networking: Shortest Path Algorithms for Dynamic Routing Protocols", Spring 2013
26. Duber Gomez Fonseca, "Graduating from College and Applying to Grad School is a 'Piece of Cake' using CPM and PERT", Fall 2012
  - ❖ Poster at 12<sup>th</sup> Annual UHD Student Research Conference, April 2013
27. Amadou Bocoum, "Managing Schedules Efficiently using Integer Programming and Assignment Methods", Spring 2012
28. Jason Bradley, "Optimal Pivot Point Selection for the Simplex Method", Spring 2012
29. Edgar Aquino, "Game Theory and the Mexican Drug War", Fall 2011
  - ❖ Oral presentation and poster at 11<sup>th</sup> Annual UHD Student Research Conference, April 2012
30. Ranjan Poudel, "Optimal Distribution of Products from Houston, TX to Kathmandu, Nepal: An Application of the Maximum Flow Problem", Fall 2011
31. Kismat Maredia, "A Study in Decision Analysis using Decision Trees and Game Theory", Fall 2010
32. Rogelio Acuna, "Analysis of Project Planning Using CPM and PERT", Spring 2010
  - ❖ Poster at 9<sup>th</sup> Annual UHD Student Research Conference, April 2010
33. Anne Maredia, "History, Analysis and Implementation of the Traveling Salesman Problem and Related Problems", Spring 2010
  - ❖ Poster at 9<sup>th</sup> Annual UHD Student Research Conference, April 2010
34. Yusuke Motozawa, "Analysis of Linear, Integer and Binary Programming and their Applications", Fall 2009
35. Aswini Ramachandran, "Evolution and Regulation of Gene Networks", Spring 2009
  - ❖ Poster at 8<sup>th</sup> Annual UHD Student Research Conference, April 2009

36. Courtney Watts, “Evaluating Newton’s Method for Approximating Real and Complex Roots of Various Functions”, Spring 2009  
 ❖ Poster at 8<sup>th</sup> Annual UHD Student Research Conference, April 2009
37. Elise Balhoff, “Liturgical Ministry Scheduling”, Spring 2007

Graduate Directed Study in Mathematics Research Advisor for 1 student:

1. Graham Reid, “A Study of Rule Manipulations of Games and their Consequences, Spring 2020

Undergraduate Senior Project Committee Member for 94 students:

- Spring 2025: Christina Hamilton, Francine Martinez, Priscila Pena, Robert Reinartz, Shaye Steinherr  
 Fall 2024: Jaiden Brown, Maggie Ha (Senior Thesis)  
 Spring 2024: Maggie Ha  
 Spring 2023: Cristy Limones, Ross McCoy  
 Spring 2021: Laiba Mumtaz, Kaylee Speed  
 Fall 2020: Kristine Lopez, Reuben Lopez, Coy Mays, Elda Piedade, Juan Valencia  
 Summer 2020: Victoria Hernandez  
 Spring 2020: Tristen Allen, Ho Yung Chan, Isbah Khan, Shawn Olichwier, Kevin Quezada  
 Fall 2019: Pete Aguilar, Jocelyn Rangel, Cric Vasquez, Cameron Weingart  
 Spring 2019: Nicolas Flores, Suhaily Garcia, Dalila Gerardo, Daouda Gouem, My Nguyen, Melinda Martinez, Daniel Rangel  
 Fall 2018: Rangwen Fan, Wesley Lopez-Lomeli, Nha Chi Nguyen, Daniel Rangel, Kimberly Swanson, Edward Torres, April Whitaker, Wenjie Yu  
 Spring 2018: Janeffer Casarez, Mai Ha, Graham Reid, Daisy Rodriguez, Zachary Wikstrom  
 Fall 2017: Angel Gowayed, Nicole Hart, Lacreasha Jones  
 Spring 2017: Windy Payne, Yazmin Trujillo  
 Fall 2016: Miguel Bucal, Stephanie Centeno, Linda Herrera, Adesua Ituah, Jose Merino, Juan Robledo, Erika Seanez, Amariah Tucker  
 Spring 2016: Daniel Avalos, Nathan Bush, Jennifer Grant, Raul Oviedo, Kevin Winkle  
 Fall 2015: Yazan Ibrahim  
 Spring 2015: Ryan Kelly  
 Fall 2014: Cory Ali  
 Spring 2014: Dieu Dang, Samantha Henegar  
 Fall 2013: Shenequa Allen, Mayuran Kumar  
 Spring 2013: William Shurtleff, Edgar Vazquez  
 Fall 2012: Iryna Dovzhuk, Sarah Guo, Rachael Kurien, Marisol Maciel, Danielle Picklesimer, Darren Romero  
 Spring 2012: Stephanie Oliver, Athena Pasuelo Ramirez  
 Fall 2011: Miranda Phan, Eduardo Robles  
 Spring 2011: Tia Pilaroscia  
 Fall 2010: Hooman Hemmati, David Jenkins, Angelica Yanez  
 Spring 2009: Alicia Corazon, Yuricel Mondragon, Van Nguyen  
 Fall 2008: Jonathan Gamez, Lauren Gracia  
 Spring 2007: Adam Drake

Exploring Co-Requisite Developmental Education Models Grant Consultant,  
September 2021-present

Invited to serve as a consultant for a project that extends the body of research on co-requisite remediation at the postsecondary level to understand the relationship between institution-level decisions about the structure and intensity of co-requisite courses and students' postsecondary outcomes. The project will attend to whether institution-level decisions lead to improved outcomes for students of different race/ethnicities, English Language Learner (ELL) status, level of academic preparation, and gender. Responsibilities include reviewing interview protocols for virtual visits to speak with faculty and students and also to review and provide feedback on one quantitative and one qualitative report by late Spring 2022. In future years, responsibilities include reviewing two reports per year.

Texas Higher Education Coordinating Board Evaluator, May 2019

Invited to join a team of 11 subject-matter experts and psychometricians to serve as an evaluator of proposals for the Texas Success Initiative Assessment 2.0 (TSIA2) to be used for college readiness assessment of undergraduate students entering Texas public universities and community colleges and Texas public high school students seeking to qualify for dual-credit coursework. Participated in the Stage II – Item Alignment component of the evaluation process, a review of 58 sample items and their alignment to the mathematics Texas College and Career Readiness Standards (TxCCRS), the secondary mathematics Texas Essential Knowledge and Skills (TEKS) standards, and the Adult Education and Literacy Standards, 2.0 (AEL Standards, 2.0), along with the National Reporting System's Educational Functional Level Descriptors.

UHD Gator Gateway Program Math Classroom Experience Session Leader and Instructor,  
Summer 2016, 2017, 2018, 2019, 2020, 2021, 2022

Recruited and worked with colleagues in the UHD Department of Mathematics and Statistics to design, schedule, and deliver to incoming UHD students an orientation to content, available resources, and success strategies in mathematics at UHD. In-person sessions ran for 75 minutes, 2-3 sessions per week, for a total of 5 or 6 weeks each summer. Virtual sessions in 2020 and 2021 ran for 50 minutes once a week for 6 weeks.

UHD Houston Pre-freshman Enrichment Program (Houston PREP) Mentor,

Summer 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024  
Serve as mentor (with J. Quander, 2012-2017, 2021-2022) for the Program Assistants (PAs) in Houston PREP, a summer enrichment program at UHD for middle and high school students. Responsibilities include meeting with PAs to discuss and reflect on their roles in the program and guiding them in mentoring student group mathematics projects.

UHD Scholars Academy Faculty Mentor, Fall 2009-Spring 2010, Fall 2015-Spring 2024  
Served as faculty mentor to a group of 8 to 15 mathematics, statistics, and data science undergraduates each year. Responsibilities included attending fall and spring orientations and networking sessions, reviewing students' CVs and personal statements, mentoring the group through a service learning event, providing feedback and advice to students on their mid-term grade reports, and organizing and leading educational field trips for students.

UHD Freshman Summer Success Program (FSSP) Instructor, Summer 2014, 2015

Assisted with new student orientation in this summer program (the precursor to UHD Gator Gateway) at UHD. Responsibilities included instructing incoming students about academic preparation, problem-solving skills, available university resources, and the university's commitment to promote social responsibility through service which fosters community engagement to address real needs.

UHD Start Right Program, Sigma Lambda Gamma National Sorority Academic Partner, Fall 2009-Spring 2010

Served as academic partner and mentor for UHD undergraduate student Tanya Martinez. Responsibilities included assisting with utilizing college and campus resources, setting goals, and developing an action plan to support academic success.

CMS Department Research Advisor, Fall 2005-Spring 2006

Served as Research Advisor to UHD undergraduate student Adam Drake, on a project entitled "Enumerating Non-Graceful Graphs Using Rosa's Parity Condition". Funding provided by the UHD Scholars Academy.

**Rice University, Houston, TX**

CAAM Department Doctoral Research, Fall 1999-Spring 2004

Surveyed and analyzed past and current research of university course and final examination timetabling, and methods for attempting to solve such problems. Developed a mathematical and computational model for solving university timetabling problems based on graph coloring and the satisfaction of various "essential" and "preferential" timetabling conditions.

Alliances for Graduate Education and the Professoriate at Rice Program (AGEP) Mentor, Summer 2000

Advised undergraduate students with mathematics research projects. Taught linear algebra and computer science workshops for high school student groups.

CAAM Department Graduate Research, Fall 1998-Spring 2004

Surveyed and analyzed past and current research regarding the graceful labeling of graphs. Developed an integer programming formulation and a constraint programming formulation for the graceful labeling problem. Obtained new theoretical and computational results on the gracefulfulness of three classes of graphs: generalized Petersen graphs, double cones, and a specific class of product graphs.

CAAM Department Graduate Research, Summer 1998

Co-developed GPAT (Graph Processing and Analysis Toolkit) software package which includes such features as graph and multigraph editing, graph and clustering algorithms, algorithm animation, and documentation. Implemented Edmonds' Maximum Matching Algorithm to find a maximum cardinality matching in an undirected connected graph.

## **SYSTRA Consulting (formerly LS Transit Systems, Inc.), Lebanon, NH**

Rail Operations Analyst: Winter 1996, Summer 1996

Processed and edited signal control lines for a graphics simulation for SEPTA's (Southeastern Pennsylvania Transportation Authority's) improved commuter rail system. Co-developed software for this project and provided quality enhancements. Assisted in assembling a GIS Track Database for a graphics simulation for Amtrak's new High Speed Rail Configuration between New Haven, CT and Boston, MA.

## **HONORS, AWARDS, AND CERTIFICATIONS**

- 2023 Teaching Professor Online Conference Participant Badge, Magna Publications, October 2023
- Advanced Certificate in Effective College Instruction, Association of College and University Educators (ACUE) and American Council on Education (ACE), July 2023
- Promoting Active Learning Online Microcredential, Association for College and University Educators (ACUE), July 2023
- Inspiring Inquiry and Lifelong Learning in Your Online Course Microcredential, Association for College and University Educators (ACUE), May 2023
- Creating an Inclusive and Supportive Online Learning Environment Microcredential, Association of College and University Educators (ACUE), March 2023
- REMOTE 2022: Maximizing Success for Learners Badge, Arizona State University Learning Enterprise, July 2022
- Award of Completion, Online Learning Consortium (OLC) “Getting Started with Hybrid-Flexible (HyFlex) Course Design” Online Workshop, June 2022
- Certificate in Evidence-Based Instruction & Course Design, UHD Center for Teaching and Learning Excellence (CTLE), May 2022
- UHD Teaching Café – Student-Centered Instruction Microcredential, UHD Center for Teaching and Learning Excellence (CTLE), May 2022
- Inclusive Teaching Microcredential, UHD Center for Teaching and Learning Excellence (CTLE), November 2021
- Post-Pandemic Pedagogy Microcredential, UHD Center for Teaching and Learning Excellence (CTLE), October 2021
- Certificate in Effective College Instruction, Association of College and University Educators (ACUE) and American Council on Education (ACE), July 2020
- VoiceThread Certified Educator, 2020
- Selected for University of Houston-Downtown President’s Leadership Academy, 2019-2020
- Award of Completion, Online Learning Consortium (OLC) “New to Online: The Essentials” Online Workshop, August 2015
- University of Houston-Downtown Faculty Excellence in Teaching Award, 2011
- Finalist for University of Houston-Downtown Faculty Excellence in Teaching Award, 2010
- Nominated for University of Houston-Downtown Faculty Excellence in Teaching Award, 2009

- Inducted into Pi Mu Epsilon Mathematics Honor Society, Texas Nu Chapter, May 2007
- Included in Strathmore's Who's Who, 2005-2006
- Lutheran Student Movement-USA (LSM-USA) Lifetime Membership Award, 2004
- Alliances for Graduate Education and the Professoriate at Rice Fellowship, May 2003-May 2004
- Loewenstern Graduate Fellowship, September 2002-May 2003
- Los Alamos National Laboratories Research Grant (LACSI), May 1999-September 2002
- George R. Brown Engineering Fellowship at Rice University, August 1997-August 1999
- Dartmouth College Tucker Foundation Chaplain's Prize, May 1997
- Inducted into Golden Key National Honor Society, Dartmouth College, September 1995
- Academic Citation in Computer Science at Dartmouth College, March 1994

## **PROFESSIONAL MEMBERSHIPS**

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American Mathematical Association of Two-Year Colleges (AMATYC)  
 American Mathematical Society (AMS)  
 Mathematical Association of America (MAA)  
 Pi Mu Epsilon Mathematics Honor Society, Texas Nu Chapter  
 Society for Industrial and Applied Mathematics (SIAM)  
 Texas Council of Teachers of Mathematics (TCTM)

## **SKILLS**

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Proficiency with MyLab Math, WebAssign, Knewton Alta, ALEKS, and zyBooks online course platforms  
 Proficiency with Blackboard and Canvas course learning management systems  
 Proficiency with PeopleSoft and EAB Navigate  
 Experience with Macintosh, Windows and UNIX operating system environments  
 Programming skills: C, C++, OPL, MATLAB, Julia, LaTeX, and HTML  
 Proficiency with Microsoft Office software (Word, Excel, PowerPoint, Outlook)  
 Experience with Mathematica, Maple, Dreamweaver software  
 Conversational Spanish

## **SERVICE ACTIVITIES**

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### **SERVICE TO THE UNIVERSITY**

#### **University Committees**

UHD Chairs Council, Fall 2024-present  
 UHD University Curriculum Committee (UCC), Fall 2024-present  
 UHD SACSCOC Quality Enhancement Plan (QEP) Curricular and Co-Curricular Sub-Committee, Summer 2024-present  
 UHD College of Sciences and Technology Assistant Dean Search Committee, Spring 2024



UHD SACSCOC Reaffirmation Working Group 6 (Institutional Planning and Assessment of Educational Programs), Spring 2024-present  
 Co-Chair, UHD SACSCOC Quality Enhancement Plan (QEP) Steering Committee, Fall 2023-present  
 UHD National Institute on Student Success (NISS) Steering Committee, Fall 2023-present  
 Chair, UHD Honors Program Director Search Committee, Fall 2023-Spring 2024  
 UHD Admissions Criteria Committee, Fall 2023-present  
 UHD Honors Program Hamman Foundation Scholarship Selection Subcommittee, Fall 2023, Fall 2024  
 UHD Vice President for Student Success and Student Life Search Committee, Fall 2022-Spring 2023, Fall 2024-Spring 2025  
 UHD Learning Management System Transition Project Team, Summer 2022-present  
 UHD Supplemental Instruction Assistant Director Search Committee, Spring 2022-Summer 2022  
 UHD University Rank and Tenure Committee, Fall 2021-Summer 2023  
 Chair, UHD Honors Program Council Committee, Fall 2023-Summer 2024  
 (Committee Member, Fall 2021-present)  
 Chair, UHD General Education Committee Empirical and Quantitative Reasoning Working Group (Math/Statistics), Spring 2021-Fall 2021  
 UHD Planning and Budget Development Committee, Fall 2020-Spring 2022  
 UHD Committee on Credentials and Elections, Fall 2020-Spring 2022  
 Chair, UHD Individual Review Committee, Fall 2021-Spring 2023, Fall 2023-Summer 2024  
 (Committee Member, Fall 2020-Spring 2023, Fall 2023-Summer 2024)  
 Chair, UHD Academic Support Center Assistant Director Search Committee, Fall 2019-Spring 2020  
 UHD Tenure Academy Exploratory Committee, Fall 2019-Summer 2023  
 UHD University College Associate Dean Search Committee, Spring 2019  
 UHD Retention and Graduation Standing Committee, Fall 2018-Summer 2020  
 Chair, UHD Retention and Graduation Standing Committee Academic Support Structures Subcommittee, Fall 2019-Summer 2020  
 (Subcommittee Member, Spring 2019-Summer 2020)  
 UHD Retention and Graduation Standing Committee First-Year Experience Subcommittee, Fall 2016-Spring 2018  
 UHD Retention and Graduation Standing Committee Orientation Subcommittee, Fall 2016-Spring 2019  
 UHD Investigating Committee, Spring 2018-Fall 2018  
 UHD Academic Affairs Council, Fall 2017-Spring 2019  
 UHD Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellows Selection Committee, Spring 2017  
 UHD Center for Teaching and Learning Excellence (CTLE) Advisory Board, Fall 2016-Spring 2018  
 UHD Campus Carry Safety Committee, Fall 2016-Spring 2018  
 UHD President's Retention Task Force, Fall 2015-Spring 2016  
 UHD Houston Guided Pathways to Success (HGPS) Institutional Task Force, September 2015-present

Chair, UHD College of Sciences and Technology and MS Dept. Administrative Assistant Search Committee, Fall 2015  
UHD Social Media Policy Committee, Spring 2015  
UHD Grievance Committee, Fall 2014-Spring 2016  
Chair, UHD College of Sciences and Technology Teaching Rubric Working Group, Fall 2014  
UHD College of Sciences and Technology Dean Search Committee, Fall 2013-Spring 2014  
UHD Center for Math and Statistics Support Learning Support Coordinator Search Committee, Fall 2013-Spring 2016, Fall 2017, Spring 2019  
Co-Chair, UHD “Give to Gators” Faculty/Staff Giving Campaign Steering Committee, 2013-2014  
(Committee Member, 2012-present)  
UHD First Year Advisory Committee, Fall 2012-Spring 2014  
UHD Academic Support Planning Committee, Fall 2012-Spring 2014  
UHD Developmental Curriculum Committee, Fall 2012-Spring 2014  
UHD Academic Adjustment Committee, Fall 2012-Spring 2014  
UHD Scholarship Committee for Study Abroad, Fall 2012-Spring 2014  
UHD Core Curriculum Social and Behavioral Sciences Component Working Group, Spring 2012-Spring 2014  
UHD Teaching Excellence Task Force, Spring 2012-Spring 2013  
Chair, UHD Faculty Awards Selection Committee, Fall 2011-Spring 2012  
UHD Currently Enrolled Students Scholarship Committee, Fall 2009-Spring 2011  
UHD Quality Enhancement Plan (QEP) Council, Fall 2009-Spring 2011  
UHD Faculty Senate, Spring 2008-Spring 2010  
UHD Faculty Senate Faculty Climate Survey Subcommittee, 2009  
UHD Student Service Fee Committee, Spring 2008-Spring 2009  
UHD Academic Technology Committee, Fall 2007-Spring 2009

### **Department Committees**

Chair, UHD MS Dept. Mathematics Education Assistant Professor Search Committee, Fall 2023-Spring 2024  
UHD “All Things  $\pi$ ” Planning Committee, Spring 2023-present  
UHD Urban Education Dept. Mathematics Education Assistant Professor Search Committee, Fall 2022-Spring 2023  
UHD MS Dept. Bypass Exam Committee, Fall 2022-present  
UHD MS Dept. Lecturer Search Committee, Spring 2022  
UHD MS Dept. Mathematics Assistant Professor Search Committee, Fall 2020-Spring 2021  
UHD MS Dept. Faculty Evaluation Committee, Fall 2020-Spring 2022  
UHD MS Dept. Student Organization Committee, Fall 2018-Spring 2022  
UHD MS Dept. Teaching Colloquium Committee, Fall 2017-Spring 2019  
UHD MS Dept. Math Education Lecturer Search Committee, Fall 2015-Spring 2016  
UHD Urban Education Dept. Early Childhood Assistant Professor Search Committee, Fall 2014

Gateways to Completion: College Mathematics for Liberal Arts (MATH 1310)  
 Committee, Spring 2014-Spring 2016

UHD MS Dept. Developmental Mathematics Assessment Subcommittee,  
 Fall 2013-present

UHD MS Dept. Honor Program Admission and Review Committee,  
 Fall 2013-Spring 2015

Chair, UHD MS Dept. Freshman Math Curriculum Committee (formerly CMS/MS Dept.  
 Pre-Calculus Curriculum Committee), Fall 2012-Spring 2024  
 (Committee Member, Fall 2009-Spring 2024)

UHD CMS Dept. Faculty Affairs Committee, Fall 2006-Spring 2008,  
 Fall 2012-Spring 2013

Chair, UHD CMS/MS Dept. Curriculum Committee, Fall 2015-Spring 2016  
 (Committee Member, Fall 2012-Spring 2017, Fall 2018-Spring 2020)

UHD Algebra Day Organizing Committee, Fall 2011-present

UHD CMS/MS Dept. Senior Project Subcommittee, Fall 2011

UHD CMS/MS Dept. Rank and Tenure Committee, Fall 2011-Summer 2024

UHD College Algebra Community of Practice, Fall 2011-present

Chair, UHD CMS Dept. Statistics Assistant Professor Search Committee,  
 Fall 2010-Spring 2011  
 (Committee Member, Fall 2008-Spring 2009)

UHD CMS Dept. Math Education Assistant Professor Search Committee,  
 Fall 2009-Spring 2010

UHD CMS/MS Dept. Math Education Curriculum Committee, Fall 2009-present

UHD Pi Mu Epsilon Mathematics Honor Society Texas Nu Chapter Selection Committee,  
 Spring 2009-Spring 2024

Chair, UHD CMS Dept. College Algebra Final Exam and Review Committee,  
 Fall 2007-Summer 2010  
 (Committee Member, Fall 2006-Spring 2012)

UHD CMS Dept. Math Education Curriculum Subcommittee, Fall 2007-Fall 2009

UHD CMS Dept. College Algebra Textbook Committee, Spring 2007

UHD CMS/MS Dept. J.P. Wood Scholarship Committee, Spring 2007-Spring 2015

UHD CMS/MS Dept. Statistics Curriculum Committee, Fall 2005-Spring 2010,  
 Spring 2014-Spring 2015

UHD CMS/MS Dept. Mathematics Curriculum Committee, Fall 2005-Spring 2013,  
 Fall 2015-Spring 2016

UHD CMS Dept. Intermediate Algebra Final Exam and Review Committee,  
 Fall 2005-Spring 2006

### **Other University Service**

Presented an overview of “Programs in the Department of Mathematics and Statistics” to  
 members of the UHD Admissions and Enrollment Management Teams, April 2025

Moderator for “Empowering Futures: Integrating Transferable Skills at UHD: A Panel  
 Discussion on the QEP with UHD Students and Faculty”, UHD Faculty Retreat,  
 January 2025

Led a 2-hour TSI Mathematics Prep workshop for Harmony School students at UHD,  
 December 2024

Participated in UHD Dining Services Focus Group, November 2024  
 Participated in the Inaugural UHD Manager Development Program, October 2024  
 UHD Data Analytics Club Advisor, Fall 2024-present  
 Assisted at UHD Freshman Convocation, August 2024  
 Assisted at UHD New Student Orientation's College of Sciences and Technology Experience, Summer 2024  
 Presenter at UHD Destination Downtown Open House, March 2024  
 UHD New Faculty Orientation Tenured Faculty Panel Member, August 2023  
 UHD Center for Teaching and Learning Excellence (CTLE) Faculty Teaching Fellow, College of Sciences and Technology, Fall 2021-Summer 2023  
 Participated in UHD Enrollment Management's Tele-Recruiting event as part of UHD's 15K Enrollment Challenge, August 2019  
 Participated in an interview with Campus Bookstore Consulting Corporation as part of an analysis of the University of Houston System and UHD Bookstores, July 2018  
 Participated in UHD Gator Ready: Coffee with the Colleges Student Orientation Event, June 2018  
 UHD Center for Teaching and Learning Excellence (CTLE) New Faculty Learning Community (NFLC) Experienced Instructor, Fall 2017-present  
 Participated in UHD College of Sciences and Technology Xperience STEM Career Xceleration, March 2017  
 Attended UHD Honors Program Honors Showcase, December 2015  
 Represented UHD MS Dept. at UHD Spring 2015 Open House's "Gator Connect" Academic, Student Service, and Student Organization Fair, March 2015  
 UHD Commencement Exercises Grand Marshal, May 2012  
 UHD Commencement Exercises Name Caller, May 2012, May 2013, December 2013, May 2014, December 2014, May 2015, May 2016, December 2016, May 2017, May 2018, December 2018, May 2019, December 2019, December 2020, May 2021, August 2021, December 2021, May 2022, December 2022, May 2023, December 2023, May 2024, December 2024, May 2025  
 UHD Commencement Exercises Banner Carrier, December 2007, December 2008, December 2009, May 2011, December 2011, May 2012, December 2012, May 2013, December 2013  
 UHD Commencement Exercises Marshal, May 2007, May 2010  
 Master of Ceremonies, 2012 UHD Faculty Awards Ceremony, April 2012  
 "Best Teaching Practices" Focus Group Facilitator, UHD College of Science and Technology and Teaching Excellence Task Force, April 2012  
 UHD Gamma Alpha Omega Sorority Chapter Advisor, Spring 2010-Fall 2017  
 UHD Campus Sustainability Day Panel Member, October 2008

### **Other Department Service**

Chair, UHD MS Dept., Fall 2024-present  
 Assistant Chair, UHD CMS/MS Dept., Fall 2012-Summer 2024  
 UHD Center for Mathematics and Statistics Support Mathematics Tutor, Fall 2018  
 UHD Pi Mu Epsilon Mathematics Honor Society Texas Nu Chapter Advisor, Spring 2016-present

Developed UHD 2302 (What Are the Odds? Mathematics in Games, Sports, and Gambling) University Seminar in Mathematics course, Fall 2015  
UHD Mathematical Association of America Liaison, January 2013-December 2016  
Organized UHD CMS Dept. Faculty Development Workshops “MyMathLab 101” and “WebAssign 101”, November 2012  
Master of Ceremonies, Pi Mu Epsilon Initiation and CMS/MS Dept. Faculty/Student Awards Ceremony, May 2012, May 2013, May 2015, May 2018, April 2019  
UHD CMS/MS Dept. Lead Instructor for College Algebra, Fall 2009-present  
UHD Mathematical Association of America Chapter Advisor, Spring 2009-present  
UHD College Algebra or Mathematics for Business and Social Sciences Final Exam Review Session Instructor, Fall 2007-present  
UHD Math Lab Tutor, Fall 2007  
Developed MATH 2301 (Introduction to Computational Mathematics) course, Spring 2007

## **SERVICE TO THE PROFESSION**

### **Committees/Advisory Boards**

Houston Math Pathways (HMP) and Complete College America (CCA) Work Group, November 2014-June 2016

### **Textbook Manuscript Reviewer**

Reviewer of *College Algebra with Modeling and Visualization*, 6<sup>th</sup> Ed. by Rockswold, May 2015

Reviewer of *Explorations in College Algebra*, 4<sup>th</sup> Ed. by Kime, Clark, & Michael, April 2010

Reviewer of *College Algebra: Concepts and Contexts* by Stewart, Redlin, & Watson, April 2007

Reviewer of *Calculus*, 6<sup>th</sup> Ed. by Stewart, January 2007

### **Conference Organizer/Session Chair/Moderator**

Organizing Committee, CombinaTexas 2013, University of Houston-Downtown, Houston, TX, April 2013

Webmaster, CombinaTexas 2013, University of Houston-Downtown, Houston, TX, April 2013

Moderator for a Contributed Talk Session, CombinaTexas 2013, University of Houston-Downtown, Houston, TX, April 2013

Facilitator for Mathematics Breakout Session, THECB Student Success Summit, University of Houston, Houston, TX, September 2011

Chair for a Contributed Paper Minisymposium, ICCIS, University of Houston-Downtown, Houston, TX, April 2009

Moderator for an MAA General Contributed Paper Session, 2009 Joint Mathematics Meetings, Washington, D.C., January 2009

Chair for a Contributed Talk Session, CGTC38, Boca Raton, FL, March 2007

## **Referee**

Referee for *PRIMUS*, 2020, 2024

Referee for *Proceedings of the 2019 Association for Women in Mathematics (AWM) Research Symposium*, 2019

Referee for *Ars Combinatoria* and *Utilitas Mathematica*, 2005-2010

## **Other Professional Service / Service to the Community**

Evaluator of proposals for the Texas Success Initiative Assessment 2.0 (TSIA2), Texas Higher Education Coordinating Board, Austin, TX, May 2019

Led one full day of professional development for 60-70 elementary and middle-school mathematics teachers in Catholic schools within the Archdiocese of Galveston-Houston, Strake Jesuit College Preparatory, Houston, TX, June 2018

Reviewer for Scholarship Applications, Richard Tapia Celebration of Diversity in Computing Conference, October 2014, April 2016, March 2017, May 2018, April 2019, May 2020, May 2021, May 2022, March 2023, March 2024, March 2025

Master of Ceremonies, National Center for Women and Information Technology (NCWIT) Houston Affiliate Award for Aspirations in Computing Celebration, University of Houston-Downtown, Houston, TX, April 2014, February 2015, February 2016, March 2017, March 2018, February 2019, February 2020, April 2022, April 2023

Interviewer for Knowles Science Teaching Foundation (KSTF) Mathematics Teaching Fellows, March 2012

Mathematics Judge for Science Engineering Fair of Houston, March 2012, March 2013, February 2014

Independent College and High School Mathematics Tutor, Fall 1997-Spring 2013

## **OTHER LEADERSHIP AND VOLUNTEER ACTIVITIES**

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Office of Christian Initiation for Adults (OCIA) Session Instructor, St. Michael Catholic Church, Lake Jackson, TX, October 2024

Knights of Columbus 3rd Degree Knight, St. Michael Catholic Church, Lake Jackson, TX, August 2023-present

❖ Knight of the Month, January 2024

President, Houston Lutheran Campus Ministry Board, February 2008-December 2009 (Board Member, June 2004-June 2012)

Webmaster, Houston Lutheran Campus Ministry, Fall 2007-Summer 2008

Homeless Ministry Team, Christ the King Lutheran Church, Houston, TX, April 2004-December 2012

Chair and Webmaster, Campus and Young Adult Ministry, Houston, TX, Fall 1999-Summer 2004

Rice University CAAM Dept. Graduate Recruiting Committee, Fall 2000-Fall 2002

Lutheran Student Movement-USA (LSM-USA) National Council, 1999-2001

Chair, LSM-USA Reference & Counsel, Elections & Credentials Committee, 2001

LSM-USA National Gathering Executive Planning Committee, 2000

Chair, LSM-USA Internet Committee, 2000

Dartmouth College Undergraduate Advisor, Fall 1996-Spring 1997

Show Chair, Dartmouth College Marching Band, Fall 1996

Dartmouth College Admissions Dept. Tour Guide, Spring 1994-Spring 1997  
President of Lutheran Student Fellowship at Dartmouth College, Fall 1994-Spring 1997

*Last updated: May 16, 2025*