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# Michelle DeDeo

Professor, University of North Florida

## EDUCATION

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|------|--|
| 1998 | <b>PhD, Mathematics</b> (Computational Science) University of California – San Diego<br>Dissertation: <i>Graphs over the Ring of Integers Modulo 2<sup>r</sup></i> |
| 1996 | <b>MA, Applied Mathematics</b> University of California – San Diego  |
| 1993 | <b>MS, General Mathematics</b> California State University – Los Angeles<br>Dissertation: <i>Analytic Functions on the Annulus</i>                                 |
| 1991 | <b>BS, Mathematics</b> (Honors) California State University – Los Angeles  |

## EMPLOYMENT

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|                |   |
|----------------|---|
| 2022 – present | Professor of Mathematics University of North Florida<br>(Visitor 1998-2001; Assistant 2001-2004; Associate 2004-2022) |
| 1997 – 1998    | Adjunct Professor University of San Diego   |
| 1993 – 1998    | Teaching Assistant University of California – San Diego   |
| 1994 – 1997    | Adjunct Professor San Diego Community College   |
| 1992 – 1993    | Adjunct Professor California State University – Los Angeles   |

## HONORS AND AWARDS

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|             |  |
|-------------|--|
| 2023 – 2025 | <b>In revision: \$300K NIH R21 Grant</b><br><b>NIH Application of Big Data Analytics to Drug Abuse Research</b>  |
| 2021        | <b>UNF STARS Award:</b><br>Effects of Florida’s “Pill Mill” Laws on Opioid Overdoses in NE Florida   |
| 2021        | <b>UNF SOARS Award:</b> Opioid Epidemic on the First Coast<br>with Jeremiah Baclig, Noah DeDeo, Rukhaiya Husain & Iliya Kulbaka  |
| 2021        | <b>UNF Undergraduate Research Mentor of the Year Award Nominee</b>   |
| 2020 – 2021 | <b>UNF Deans’ Fellowship:</b> Socioeconomic Impact of the Opioid Epidemic in NE Florida (\$4000 + course release – 1 of 3)   |
| 2019 – 2024 | <b>\$1.6M Dept of Education Grant Co-PI</b> with the UNF College of Education:<br>“Transforming Teacher Preparation for Duval County” with Wanda Lestrapes, Deborah Reed, KoSze Lee, Christine White, and Daniela Genova |
| 2019        | <b>UNF Teaching Innovation Institute Grant:</b> Calculus for Engineers (\$4000)  |
| 2019        | <b>UNF Outstanding Leadership &amp; Service Award Nominee</b>  |

|             |   |
|-------------|---|
| 2018        | <b>UNF Outstanding Undergraduate Teaching Award</b><br>(Nominated every year 2003--2007 and 2012--2017)                                   |
| 2016        | <b>University of North Florida, Summer Teaching Grant</b><br>"Discrete Mathematics II" (\$7500 – 1 of 11)                                 |
| 2004        | <b>University of North Florida, Summer Research Grant</b><br>"Symplectic Maps and Generalizations of the Toda Lattice" (\$5000 – 1 of 10) |
| 2003        | <b>University of North Florida, Summer Teaching Grant</b><br>"Computational Number Theory" (\$5000 – 1 of 7)                              |
| 2002        | <b>University of North Florida, Summer Research Grant</b><br>"Radon Transforms over $k$ -dimensional rings" (\$5000 – 1 of 10)            |
| 1996 – 1998 | <b>American Assn. of University Women (AAUW) Dissertation Fellowship</b> (\$20,000)   |
| 1996 – 1997 | <b>San Diego Community College "Excellence in Teaching" Award</b>   |

## **PUBLICATIONS**

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### **PEER-REVIEWED RESEARCH PUBLICATIONS**

1. J. Butler, M. DeDeo, D. Lambert, D. Murphy. "Population and Nest Site Evidence for Diamondback Terrapins, *Malaclemys terrapin*, in Northeast Florida." *Front. Ecol. Evol.* 10:833199. doi: 10.3389/fevo.2022.833199
2. A. Baker, M. Bagwell, M. DeDeo, et al. "Factors that Contribute to Hospital Readmissions after Arthroscopic Knee Surgeries: A Path for Shared Decision Making." *Knee Surgery, Sports Traumatol Arthrosc.* 2022 Feb 23. doi: 10.1007/s00167-022-06919-2. PMID: 35199185.
3. M. R. DeDeo. "On the Energy of Transposition Graphs." Accepted April 2021. *Combinatorics, Graph Theory & Computing.*
4. M. R. DeDeo and Elinor Velasquez. "The Heat Equation on the Poincaré Upper Half Plane." *Proc. of the American Mathematical Society* **149** No. 10 (2021) pp. 4171--4180. doi: 10.1090/proc/15610.
5. M. R. DeDeo and Maansi Garg. "Early detection of pediatric seizures in the high gamma band." *IEEE Access* (2021). doi: 10.1109/ACCESS.2021.3087782
6. M. R. DeDeo. "A Graph Energy Upper Bound using Spectral Moments." *Congr. Numer.* **232** (2019), pp. 233--240.
7. S. Aulakh, M. DeDeo, J. Free, K. Berdeguez, S. Rosenfeld, A. Quinones-Hinojosa, A. Chanan-Khan, S. Ailawadhi. "Survival trends in glioblastoma and association with treating facility volume." *J Clin Neurosci.* **68** (2019 Oct) pp. 271-274. doi: 10.1016/j.jocn.2019.04.028
8. M. R. DeDeo, V. Dang and Y. Ge. "On the Ramanujancy of Heisenberg graphs over Rings of degree 6 or more." *Congr. Numer.* **185** (2007), pp. 111--126.
9. M. DeDeo, D. Lanphier and M. Minei. "The Spectrum of Platonic Graphs over Finite Fields." *Discrete Mathematics* **307** (2007) pp.1074--1081. doi: 10.1016/j.disc.2006.07.032

10. M. DeDeo, M. Martínez, A. Medrano, M. Minei, H. Stark, A. Terras. "Zeta Functions of Heisenberg Graphs over Finite Rings." In: Ismail M.E., Koelink E. (eds) *Theory and Applications of Special Functions. Developments in Mathematics* (2005) Springer, Boston, MA. doi: 10.1007/0-387-24233-3\_8
11. M. R. DeDeo and Elinor Velasquez. "Radon transforms on  $Z_n^k$ ." *SIAM J. Discrete Math* **18** No. 3 (2004/2005) pp. 472--478. doi: 10.1137/S0895480103430764
12. M. R. DeDeo and Elinor Velasquez. "An Introduction to Symplectic Maps and Generalizations of the Toda Lattice." *Congr. Numer.* **169** (2004) pp.127--139.
13. M. DeDeo, M. Martinez, A. Medrano, M. Minei, H.M. Stark, and A. Terras. "Spectra of Heisenberg Graphs over Finite Rings." *Discrete Contin. Dyn. Syst.* (2003) pp. 213--222. doi: 10.3934/proc.2003.2003.213
14. M. R. DeDeo. "Non-Ramanujancy of Euclidean Graphs over the Ring of Integers modulo  $2^r$ ." *Discrete Math* **265** (2003) pp.45--57. doi: 10.1016/S0012-365X(02)00621-0
15. M. R. DeDeo. "Generalized Kloosterman sums over the Rings of Order  $2^r$ ." *Congr. Numer.* **165** (2003) pp.65--75.
16. M. R. DeDeo and Elinor Velasquez. "An introduction to the Radon transform over  $k$ -dimensional space of Integers modulo  $n$ ." *Congr. Numer.* **156** (2002) pp.201--209.
17. M. DeDeo. "Improving Pass Rates in Mathematics Using Interactive Computer Software." In J. A. Chambers (ed.), *12th Intl. Conference on College Teaching and Learning* (2001) pp.53--58.

#### **SUBMITTED TO PEER-REVIEWED JOURNALS**

18. A. Sonikpreet, M. DeDeo, S. Ailawadhi, et al. "Refusal Trends of Recommended Therapies for Glioblastoma Multiforme." Submitted to *World Neurosurgery* (June 2021).

#### **PUBLISHED DATASETS & RESOURCES** (Publicly available/Open access)

19. **Odd Perfect Number (OPN) Sandbox**, a tool for experimenting with OPNs using large precision integer and floating point processing using the Gnu Multiprecision Arithmetic Library with Matthew Thomas: Available at <https://github.com/mathprojects/OPNSandbox>
20. **Data resource and dashboard for Opioid Distribution in NE Florida** using Tableau: <https://public.tableau.com/app/profile/michelle.dedeo/viz/OpioidsinNEFlorida2006-2014/Dashboard1>
21. **Data analyses of pediatric EEG data** from Boston Children's Hospital: [https://figshare.com/articles/dataset/Pediatric\\_EEG\\_Data\\_Analyses\\_in\\_High\\_Gamma\\_Band\\_from\\_Boston\\_Children\\_s\\_Hospital/14044220/3](https://figshare.com/articles/dataset/Pediatric_EEG_Data_Analyses_in_High_Gamma_Band_from_Boston_Children_s_Hospital/14044220/3)

#### **PUBLICATIONS IN PROGRESS:**

- **Finite Mathematics: A Modern Approach** (book in preparation)
- "Decyphering the ARCOS: A Guide to the DEA's Data on Opioids" (journal article in preparation)
- "Bounds on the Special Factors of Odd Perfect Numbers" (journal article in preparation)

## INVITED TALKS & PANELS

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- 2020                      **Keynote Speaker: 3rd Annual Data Science, Analytics and Artificial Intelligence Conference, Boca Raton, FL : The Rule of 77: Making Decisions**
- 2018                      **Invited Panel Speaker: Joint Mathematics National Meeting, San Diego, CA: Paths to Collaboration with Scientists**

## SELECT INVITED & SPECIAL RESEARCH PRESENTATIONS

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(JMM = Joint Mathematics Meeting; AMS = American Mathematical Society; MAA = Mathematical Assn. Of America)

- April 2022              JMM AMS Special Session on Mathematical Models of Diseases: Analysis and Computation: **State-Space Smoothing Models and the Opioid Epidemic**
- April 2021              2021 UNF STARS Presentation and UNF Biomedical Sciences Research Colloquium: **Effects of Florida's "Pill Mill" Laws on Opioid Overdoses in NE Florida**
- June 2018              ASCO (American Society of Clinical Oncology) Annual Meeting, Chicago, IL: **Association Between Treatment Facility Volume and Mortality of Patients With Glioblastoma**
- January 2018           JMM AMS Special Session on Mathematical Information in the Digital Age of Science, San Diego, CA: **Seizure Prediction using Spectral Density Analysis on Pediatric EEGs**
- January 2016           JMM AMS Session on Combinatorics and Graph Theory, Seattle, WA: **Tighter Bounds on the Energy of Ramanujan Graphs**
- January 2015           JMM AMS Session on Combinatorics, San Antonio, TX: **Thoughts on the Energy of Ramanujan graphs**
- January 2013           JMM MAA Session on Research on the Teaching and Learning of Undergraduate Mathematics, San Diego, CA: **Over A Decade of Improving Pass Rates in Gateway Mathematics Courses using Interactive Software**
- January 2011           JMM Special Interest Group MAA RUME Session on Research on the Teaching and Learning of Undergraduate Mathematics, New Orleans, LA: **Improving Pass Rates in Mathematics using Interactive Software – Revisited**
- January 2008           JMM AMS Special Session on Expanders and Ramanujan Graphs: Construction and Applications, San Diego, CA: **On the Ramanujancy of Heisenberg graphs of order 6 or more**
- January 2006           JMM MAA Session on Achieving Quantitative Literacy, San Antonio, TX: **Ethnomathematics: Fear or Fusion**

- January 2005 JMM AMS Session on Algebraic Structures, Atlanta, GA:  
**Symplectic Maps and Generalizations of the Toda Lattice**
- January 2004 JMM AMS Session on Analysis, Phoenix, AZ:  
**The Radon Transform on  $Z_n^k$**
- January 2002 JMM AMS Session on Series and Fourier Analysis, San Diego, CA:  
**The Radon Transform in Directional and Toroidal Time Series**
- January 2001 JMM MAA Session on Redefining What Makes a Modern “College Algebra”  
Experience Means, New Orleans, LA:  
**Putting “College” Back Into College Algebra**

## **SELECT CONTRIBUTED RESEARCH PRESENTATIONS**

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- March 2021 52<sup>nd</sup> Southeastern International Conference on Combinatorics, Graph Theory &  
Computing, Boca Raton, FL:  
**In Search of Odd Perfect Numbers: A Computational Sandbox**
- March 2020 51<sup>st</sup> Southeastern International Conference on Combinatorics, Graph Theory &  
Computing, Boca Raton, FL: **Graph Energy in Interconnection Networks based on  
Cayley graphs of Permutation groups**
- January 2020 JMM AMS Contributed Paper Session on Probability Theory, Stochastic Processes  
and Statistics, Denver, CO:  
**Data Science - Challenges in the Quintessential Interdisciplinary Field**
- March 2019 50<sup>th</sup> Southeastern International Conference on Combinatorics, Graph Theory &  
Computing, Boca Raton, FL: **The Energy of Ramanujan Graphs**
- January 2019 JMM AMS Contributed Session on Partial Differential Equations, Baltimore, MD: **The  
Heat Equation on the Finite Poincaré Upper Half Plane**
- January 2017 JMM AMS Contributed Session on Game Theory, Systems, Control, Atlanta, GA: **An  
Alternative Perspective for EEG Analysis**
- January 2014 JMM MAA General Contributed Session on Teaching Mathematics Beyond the  
Calculus Sequence, Baltimore, MD:  
**The Conundrum of Teaching Finite Mathematics**
- January 2012 JMM MAA General Contributed Session: Mathematics & Technology, Boston, MA: **A  
Decade of Improving Pass Rates in Mathematics using Interactive Software**
- January 2009 JMM MAA General Session: Mathematics and Technology, Washington, DC:  
**Incorporating Software into College Algebra: Who Wins? We All Do, If...**
- January 2007 JMM MAA General Session: Mathematics and Technology, New Orleans, LA:  
**Incorporating Software in College Algebra: Five Years Later**

## TEACHING

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### COURSES TAUGHT at UNF (Subscripts indicate multiple classes; Sabbatical 2016-2017)

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#### **GRADUATE**

MAS6908 – Graduate Directed Independent Study in Mathematics (2020<sub>(2)</sub>, 2019<sub>(2)</sub>)

MAA6417 – Graduate Complex Analysis (2021, 2011)

MAS6218/MAT6933\*-Grad. Number Theory (2020, 2017, 2014, 2012, 2009\*, 2007\*, 2005\*, 2003\*)

STA6908 - Graduate Directed Independent Study in Biostatistics (2020)

#### **UNDERGRADUATE**

CIS4900 – Independent Study in Computer Science (2021<sub>(2)</sub>)

MAS4900/4906 – Independent Study in Mathematics (2021<sub>(4)</sub>, 2019<sub>(3)</sub>, 2018<sub>(2)</sub>, 2012<sub>(2)</sub>, 2011<sub>(3)</sub>, 2006)

MAA4402 – Complex Analysis (2018, 2014, 2013, 2007, 2004)

MAS3203/MAT3930\* – Number Theory (2021--2014, 2011, 2009, 2006, 2004\*, 2002<sub>(2)</sub>, 2001)

MHF3404 – History of Mathematics (2013, 2012)

MHF3202 – Foundations of Mathematics (2010, 2009, 2002)

MAD3107 – Discrete Mathematics (2007, 2006, 2000)

MAE 2801 - Mathematics for Elementary Education (2001)

MAC2313 – Calculus III (2016, 2015, 2014, 2011, 2008, 2003--2001)

MAC2312 – Calculus II for Engineers (2020, 2019, 2018, 2017)

MAC2312 – Calculus II (2020<sub>(2)</sub>, 2018, 2015--2011, 2009, 2008, 2007, 2005<sub>(2)</sub>, 2000, 1999)

MAC2311 – Calculus I for Engineers (2021, 2019<sub>(2)</sub>, 2018)

MAC2311 – Calculus I (2019, 1999, 1998)

MAC2233 – Calculus for Business (2001)

MAC1147 – Precalculus (2010)

MAC1114 – Trigonometry (2008)

MGF1106 – Finite Mathematics (2017, 2016, 2015<sub>(2)</sub>, 2009, 2006)

MAC1105 – College Algebra: Large Lecture (2015, 2014, 2013<sub>(2)</sub>, 2012, 2010--2008, 2007<sub>(2)</sub>, 2006, 2005<sub>(2)</sub>, 2004<sub>(2)</sub>, 2003, 2001<sub>(2)</sub>, 2000<sub>(2)</sub>, 1999, 1998)

MAC1105 – College Algebra (2015, 2013, 2010--2008, 2003<sub>(2)</sub>, 2002, 2001<sub>(2)</sub>, 1999, 1998)

STA3032 – Probability and Statistics for Engineers (2019)

STA2014 – Elem. Statistics for Health & Soc. Sci. (2000)

#### **SELECT COURSE DESIGN/REDESIGN AT UNF**

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##### **MAT3930 – Computational Number Theory**

Received summer teaching grant to develop and taught class in 2004. The computational elements have been merged into all of my undergraduate and graduate Number Theory classes.

##### **MAD3108 – Discrete Mathematics II**

Received summer teaching grant to develop and incorporate into the new Discrete Mathematics track in Mathematics, but due to budget and class constraints this class has never been offered.

##### **MAC2312 – Calculus II for Engineers**

##### **MAC2311 – Calculus I for Engineers**

Received a Teaching Innovation Institute grant to develop under the direction of the School of Engineering with two colleagues (Drs. Hamid and Genova) to improve calculus for engineers by incorporating more real-world applications. Multiple classes now taught every semester since 2018.

## **FACULTY ADVISING: Theses, Capstones & Independent Studies**

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### **MASTERS' THESIS**

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|             |                |                                       |
|-------------|----------------|---------------------------------------|
| Spring 2005 | Dennis Perusse | Sieve Methods & Goldbach's Conjecture |
| Spring 2004 | James Griffin  | Ramanujan Graphs                      |

### **MASTERS' THESIS COMMITTEE**

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|                  |                |   |
|------------------|----------------|---|
| Spring 2021      | Matthew Thomas | Minimizing Reaction Systems                             |
| Fall 2020        | Rhys Jones     | Maximality and Applications of Subword-Closed Languages |
| Summer/Fall 2018 | Katie Bakewell | Self-Assembly of DNA Graphs and Postman Tours           |

### **HONORS' PROGRAM THESIS & CAPSTONE**

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|             |                   |   |
|-------------|-------------------|---|
| Spring 2021 | Kaci Biats        | An Exploration of Perfect Numbers   |
| Fall 2017   | Monica Rice       | The Dirichlet Problem and Applications  |
| Spring 2004 | Elizabeth Hendrix | Women in Mathematics: Motivating Factors For Doctorates in Academia vs. Professionals in the Actuarial Sciences |

### **CAPSTONE** (since 2015)

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|             |                  |   |
|-------------|------------------|---|
| Spring 2021 | Kaci Biats       | Topics in Number Theory                             |
|             | Andre Sierra     | Image Recognition                                   |
|             | Craig Goodman    | Elliptic Curves and Applications in Cryptography    |
|             | Erich Jones      | Modular Arithmetic in Check Digits & Hash Functions |
| Spring 2020 | Thomas Hunt      | Predictors in Glioblastoma patients                 |
|             | Erin Thompson    | Factors in Brain Tumor Survival                     |
| Fall 2019   | Gabriel Kilgore  | Arithmetic Functions                                |
| Spring 2019 | Mikayla Short    | Gaussian Primes and Moats                           |
|             | Isaac Quiros Lum | Ramanujan Graphs                                    |
| Fall 2015   | Monica Rice      | The Dirichlet Problem and Applications              |

### **RECENT DIRECTED INDEPENDENT STUDY**

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#### Graduate Mathematics & Statistics (MAT 6908/STA6908)

|             |                 |                                |
|-------------|-----------------|--------------------------------|
| Fall 2021   | Sarah Duncan    | Number Theory                  |
| Fall 2020   | Salika Sar      | Elliptic Curves & Cryptography |
| Fall 2020   | Matthew Thomas  | Computational Number Theory    |
| Fall 2019   | Joseph Free     | Statistics in Medicine         |
| Summer 2019 | Parul Malurenda | Graduate Complex Analysis      |

#### Mathematics (MAT4906/4900)

|             |                  |                             |
|-------------|------------------|-----------------------------|
| Summer 2019 | Andre Sierra     | Complex Analysis            |
| Spring 2019 | Mikayla Short    | Biostatistics               |
| Fall 2018   | Isaac Quiros Lum | Computational Number Theory |
|             | Mikayla Short    | Complex Analysis            |
| Spring 2012 | Chad McDaniel    | Number Theory               |
|             | William Olsen    | Complex Analysis            |
| Spring 2011 | Teresa Graham    | Number Theory               |
|             | Murphy Griffin   | Complex Analysis            |
|             | Rachel Levanger  | Computational Number Theory |
| Summer 2010 | Chad McDaniel    | Complex Analysis            |

#### Computer Science (CIS4900)

|             |                 |  |
|-------------|-----------------|--|
| Spring 2021 | Jeremiah Baclig | Data Science (Python, JMP and Tableau) |
|             | Iliya Kulaka    | Data Science (Python, JMP and Tableau) |

## SERVICE (current positions in **bold**)

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### COMMUNITY/PROFESSIONAL

|                       |                     |   |
|-----------------------|---------------------|---|
| <b>2020 – present</b> | <b>Lead Advisor</b> | UNF's Florida Data Science for Social Good (FL-DSSG) Program  |
| <b>2017 – present</b> | <b>Researcher</b>   | Mayo Clinic Research Collaborator   |
| <b>2001 – present</b> | <b>Reviewer</b>     | Various journals such as SIAM Discrete Mathematics, Ars Combinatorica and Combinatorics, Graph Theory & Computing                         |
| <b>2001 – present</b> | <b>Reviewer</b>     | American Mathematical Society MathSciNet (35 reviews)   |
| <b>2001 – present</b> | <b>Reviewer</b>     | Textbooks with named reviewer recognition published by: Addison Wesley, Brooks Cole, Wiley & Sons, Hawkes Learning, McGraw-Hill & Pearson |
| 2016 – 2017           | Organizer           | 30 <sup>th</sup> SERMON (Southeastern Regional Meeting on Numbers) Conference Host & Co-Organizer (NSA & NSF Sponsorship)                 |
| 2000 – 2004           | Member              | WJCT Community Advisory Board (elected to represent UNF)  |

### UNIVERSITY SERVICE

|                       |                |   |
|-----------------------|----------------|---|
| <b>2020 – present</b> | <b>Member</b>  | UNF Academic Programs Committee (APC)   |
| <b>2018 – present</b> | <b>Advisor</b> | UNF Grappling Club  |
| <b>2016 – present</b> | <b>Mentor</b>  | UNF Honors College  |
| <b>2011 – present</b> | <b>Chair</b>   | University Appeals Committee (Member: 2004-2010)  |
| 2021                  | Reviewer       | UNF Diversity, Equity and Inclusion Grant   |
| 2020 – 2021           | Member         | UNF NSF ADVANCE Grant Exploratory Committee (Served on Exploratory and 4 Subcommittees) |
| 2018 – 2020           | Advisor        | UNF Kickboxing Club   |
| 2007 – 2009           | Member         | UNF Nominations and Elections Committee   |
| 2005 – 2006           | Chair          | UNF Ad Hoc Committee on Compression & Inversion   |
| 2005 – 2006           | President      | UNF College of Arts & Sciences Faculty Association                                      |
| 2004 – 2006           | Treasurer      | UNF - United Faculty of Florida   |
| 2004 – 2005           | Vice President | UNF College of Arts & Sciences Faculty Association                                      |
| 2002 – 2004           | Member         | UNF Academic Standards Committee  |
| 1998 – 2004           | Member         | UNF Faculty-Student Mentor Program (Chair of Awards Committee: 2001-02)                 |



## **DEPARTMENTAL SERVICE**

|                |                                     |   |
|----------------|-------------------------------------|---|
| 2018 – present | Member                              | Professional Development & Resource Committee (Chair 2004-2018)   |
| 2018 – 2020    | Chair<br>Member<br>Member<br>Member | Ad-Hoc Annual Evaluations & Operating Procedures Committee<br>Ad-Hoc P&T Guidelines Committee<br>Distance Learning Committee<br>General Education Committee |
| 2018 – 2019    | Member<br>Member                    | Distance Learning Committee (Chair 2015-2016)<br>Math-Stat Emporium Committee (Chair 2015-2016)   |
| 2004 – 2013    | Coordinator                         | Departmental Coordinator for College Algebra  |
| 2009 – 2010    | Member                              | Departmental Search Committee   |
| 2002 – 2004    | Coordinator                         | Departmental Coordinator for Finite Mathematics   |
| 2003           | Contributor                         | Departmental Website Major Redesign   |
| 2002 – 2004    | Co-Advisor                          | UNF Mathematics and Statistics Club   |
| 2000 – 2005    | Coordinator                         | UNF APP Mathematics Program Co-Coordinator and Instructor   |

## **PROFESSIONAL TRAINING**

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### **TOL 4100** (Spring 2016)/**TOL 6100** (Summer 2016)

Intensive seminars that cover distance learning pedagogy, course design, instructional strategies, communication strategies, and online assessment. TOL6100 was offered in a hybrid format that included five online modules, a face-to-face roundtable discussion, and face-to-face culminating presentation day. Throughout the seminar faculty participate in individual instructional design consultations including graphic and media development support.

### **Microsoft Azure Microdegree** (Summer 2020)

Azure Machine Learning (ML) can be used for any kind of machine learning from classical ML to deep learning as well as supervised and unsupervised learning. Learned to build, train, and track machine learning and deep-learning models in an Azure Machine Learning Workspace. Program focused on Azure Machine Learning studio as a web portal in Azure Machine Learning for model training, deployment, and asset management.

## **PROFESSIONAL MEMBERSHIPS**

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**AMS** (American Mathematical Society); **IEEE** (Institute of Electrical and Electronics Engineers);  
**AAUW** (American Assn. Of University Women); Phi Kappa Phi Honor Society