

Thiago Serra

Bucknell University
One Dent Drive Lewisburg, PA 17837

Email: thiago.serra@bucknell.edu

Website: ThiagoSerra.com

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RESEARCH INTERESTS

Theory, applications, and social impact of machine learning and mathematical optimization.

EDUCATION

Ph.D.	<i>Operations Research</i>	Carnegie Mellon University	2018	Advisor: J. Hooker
	♦	Gerald L. Thompson Dissertation Award in Management Sciences		
M.S.	<i>Operations Research</i>	Carnegie Mellon University	2015	
M.S.	<i>Computer Science</i>	University of Sao Paulo	2012	Advisor: Y. Wakabayashi
B.S.	<i>Computer Engineering</i>	University of Campinas	2008	Advisor: A. V. Moura
	♦	SBC Outstanding Student Award, IE Award, CREA Honorable Mention		
Certificate of Studies Abroad		IST, University of Lisbon	2007	

ACADEMIC APPOINTMENTS

Bucknell University , Lewisburg, PA	
<i>Assistant Professor of Analytics and Operations Management</i>	August 2019 – Present
<i>Affiliate Faculty in Latin American Studies</i>	September 2022 – Present
The University of Alabama Graduate School , Tuscaloosa, AL	
<i>Affiliate Faculty of Information Systems, Statistics and Management Science</i>	July 2022 – Present

INDUSTRY, CONSULTING, AND VISITING POSITIONS

Mitsubishi Electric Research Labs , Cambridge, MA	
<i>Visiting Research Scientist</i>	June 2018 – June 2019
<i>Summer Intern</i>	May 2017 – August 2017
<i>Summer Intern</i>	May 2016 – August 2016

Petrobras, Sao Paulo, SP, Brazil
Operations Research Analyst

June 2009 – June 2013

Neolog, Sao Paulo, SP, Brazil
Consultant

June 2008 – June 2009

PUBLICATIONS

Currently Under Review or In Preparation

1. J. Huchette, G. Munoz, T. Serra, and C. Tsay:
When Deep Learning Meets Polyhedral Theory: A Survey.
In preparation for EJOR.

Refereed Journal Papers

2. A. Raghunathan, D. Bergman, J. Hooker, T. Serra, and S. Kobori:
Seamless Multimodal Transportation Scheduling.
To appear in *INFORMS Journal on Computing*. Accepted in 02/2022.
3. T. Serra, T. Huang, A. Raghunathan, and D. Bergman:
Template-based Minor Embedding for Adiabatic Quantum Optimization.
INFORMS Journal on Computing 34(1):427–439, 2021.
4. E. Balas and T. Serra:
When Lift-and-Project Cuts are Different.
INFORMS Journal on Computing 32(3):822–834, 2020.
5. T. Serra:
Reformulating the Disjunctive Cut Generating Linear Program.
Annals of Operations Research 295:363–384, 2020.
♦ INFORMS 2016 Annual Meeting Interactive Presentation Award First Place Winner
6. T. Serra and R. J. O’Neil:
MIPLIBing: Seamless Benchmarking of Mathematical Optimization Problems and Metadata Extensions.
SN Operations Research Forum 1:24, 2020.
7. T. Serra and J. Hooker:
Compact Representation of Near-Optimal Integer Programming Solutions.
Mathematical Programming 182:199–232, 2020.

Refereed International Conference Papers

8. J. Cai*^B, N. Nguyen*^B, N. Shrestha^B, A. Good^B, R. Tu^B, X. Yu, S. Zhe, and T. Serra:
Getting Away with More Network Pruning: From Sparsity to Geometry and Linear Regions.
In *Proceedings of the 20th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2023)*.
Acceptance rate: TBA
^B Bucknell students.
* Equal contribution.

9. A. Florio, P. Martins, M. Schiffer, T. Serra, and T. Vidal:
Optimal Decision Diagrams for Classification.
In Proceedings of the 37th AAAI Conference on Artificial Intelligence (AAAI 2023).
Acceptance rate: 20.8%
10. A. Good*^B, J. Lin*^B, X. Yu*, H. Sieg^B, M. Ferguson^B, S. Zhe, J. Wiecek, and T. Serra:
The Relative Intensification Effect: Recall Distortion in Neural Network Pruning.
In Proceedings of the 36th Conference on Neural Information Processing Systems (NeurIPS 2022).
Acceptance rate: 25.6%
^B Bucknell students.
* Equal contribution.
11. X. Yu*, T. Serra*, S. Ramalingam, and S. Zhe:
The Combinatorial Brain Surgeon: Pruning Weights That Cancel One Another in Neural Networks.
In Proceedings of the 39th International Conference on Machine Learning (ICML 2022).
Acceptance rate: 21.9%
* Equal contribution.
12. C. Riera, C. Rey, T. Serra, E. Puertas, and O. Pujol:
Training Thinner and Deeper Neural Networks: Jumpstart Regularization.
In Proceedings of the 19th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2022).
Acceptance rate: 46.7%
13. T. Serra, X. Yu, A. Kumar, and S. Ramalingam:
Scaling Up Exact Neural Network Compression by ReLU Stability.
In Proceedings of the 35th Conference on Neural Information Processing Systems (NeurIPS 2021).
Acceptance rate: 26%
14. T. Serra and S. Ramalingam:
Empirical Bounds on Linear Regions of Deep Rectifier Networks.
In Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI 2020).
Acceptance rate: 20.6%
15. T. Serra, A. Kumar, and S. Ramalingam:
Lossless Compression of Deep Neural Networks.
In Proceedings of the 17th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2020).
Acceptance rate: 50.0%
♦ **Third Place at the Poster Competition of the LatinX in AI Workshop at ICML 2020**
16. T. Serra:
Enumerative Branching with Less Repetition.
In Proceedings of the 17th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2020).
Acceptance rate: 50.0%

17. T. Serra, A. Raghunathan, D. Bergman, J. Hooker, and S. Kobori:
Last-Mile Scheduling Under Uncertainty.
In *Proceedings of the 16th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2019)*.
Acceptance rate: 44.8%
18. T. Serra*, C. Tjandraatmadja*, and S. Ramalingam:
Bounding and Counting Linear Regions of Deep Neural Networks.
In *Proceedings of the 35th International Conference on Machine Learning (ICML 2018)*.
Acceptance rate: 25.1%
* Equal contribution.
♦ **Princeton Day of Optimization Best Poster Award: Optimization and Machine Learning**
19. A. Raghunathan, D. Bergman, J. Hooker, T. Serra, and S. Kobori:
The Integrated Last-Mile Transportation Problem (ILMTP).
In *Proceedings of the 28th International Conference on Automated Planning and Scheduling (ICAPS 2018)*.
Acceptance rate: 33.0%
20. T. Serra, G. Nishioka, and F. Marcellino:
The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach.
In *Proceedings of the 18th International Conference on Principles and Practice of Constraint Programming (CP 2012)*.
Acceptance rate: 36.6%

Patents

21. T. Serra, A. Raghunathan, and D. Bergman:
System and Method for Scheduling Multiple Modes of Transport with Incomplete Information.
US Patent 11,085,781, granted on August 2021.
22. A. Raghunathan, D. Bergman, and T. Serra:
Systems and Methods for Joint Control of Multi-Modal Transportation Networks.
U.S. Patent Application 15/785,540, filed on October 2017 (pending).

GRANTS AND FUNDRAISING

Grants Awarded

2021–2023	CRII: RI: RUI: Principled Methods for Compressing Neural Networks through Discrete Optimization and Polyhedral Theory (PI) National Science Foundation (NSF) Award # 2104583	174,847 USD
2022–2023	Student Support and Mentorship Program for CPAIOR 2022 (PI) Co-PI: Phebe Vayanos (USC) National Science Foundation (NSF) Award # 2223504	9,963 USD

Other Fundraising Initiatives

CPAIOR 2022 (as Sponsorship Chair)	Artificial Intelligence Journal	11,000 EUR
	Gurobi	3,000 USD
	Google	2,000 USD
	nextmv	2,000 USD
	Kinaxis	1,500 USD
	The Optimization Firm	1,000 USD
	Lindo Systems	600 USD
	COSLING	300 EUR

HONORS AND AWARDS

2021 ICML Best Reviewers (top 10% of the reviewers)

2021 AAAI Outstanding Program Committee Award (awarded to 13 out of 9493 PC members)

2020 Third Place at the Poster Competition of the LatinX in AI Workshop at ICML 2020

Graduate and Postdoctoral

2018 Princeton Day of Optimization Best Poster Award: Optimization and Machine Learning

2018 Carnegie Mellon Univ. Gerald L. Thompson Doctoral Dissertation Award in Management Science

2016 INFORMS Judith Liebman Award

2016 INFORMS Annual Meeting Poster Award

2011 Brazilian Symposium on Operations Research Best Paper Finalist

Undergraduate

2009 Brazilian Computing Society (SBC) Outstanding Student Award

2009 Sao Paulo Institute of Engineering (IE) Award

2009 Sao Paulo Reg. Board of Engineering, Architecture, and Agronomy (CREA) Honorable Mention

2007 ACM International Collegiate Programming Contest South America Bronze Medal

2006 Portuguese National Programming Contest (MIUP) Third Place

2005 ACM International Collegiate Programming Contest South America Bronze Medal

2004 ACM International Collegiate Programming Contest South America Bronze Medal

2003 Brazilian Olympiad in Informatics Gold Medal

INVITED PRESENTATIONS

Apr 2023 Syracuse University, Electrical Engineering and Computer Science Department

Apr 2023 U.S. Naval Academy, Mathematics Department

Apr 2023 Georgia Institute of Technology, AI4OPT Seminar Series

Past

Oct 2022 Bucknell University, Faculty Colloquium

Aug 2022 University of Pittsburgh, Industrial Engineering Department

Jul 2022 INFORMS MIF Webinar

Jun 2022 KTH Royal Institute of Technology, Stockholm Optimization Days (Invited speaker)

Mar 2022 University of Pavia, Department of Mathematics

Mar 2022 University of Sydney Business School

Dec 2021 Federal University of Paraiba, Logistics and Optimization Group

Dec 2021 INFORMS Webinar

Nov 2021 ACP Winter School on Decision Diagrams for Optimization

Nov 2021 The University of Iowa, Tippie College of Business

Nov 2021 Bucknell University, Presidential Fellows Common Hour

Oct 2021 INFORMS Teaching Effectiveness Colloquium

Sep 2021 Bucknell University, Math Colloquium

May 2021 MIP 2021 Workshop

Mar 2021 GERAD (Group for Research in Decision Analysis), Montreal

Feb 2021 UCLA, Institute for Pure and Applied Mathematics

Jan 2021 ORAI China

Nov 2020 University of Nebraska Omaha, Department of Mathematics

Nov 2020 Brazilian Symposium on Operations Research (Tutorial)

Oct 2020 The University of Alabama, The Culverhouse College of Business

Feb 2020 Google, New York City Office

Aug 2019 Carnegie Mellon University, YinzOR 2019 (Featured speaker)

Jul 2019 State University of Campinas, Institute of Computing

May 2019 UCLA, Institute for Pure and Applied Mathematics

Apr 2019 Brown University, Computer Science Department

Mar 2019 University of Massachusetts Amherst, INFORMS Student Chapter

Dec 2018 Rensselaer Polytechnic Institute, Industrial and Systems Engineering

Dec 2018 Bucknell University, Freeman College of Management

Oct 2018 The University of Utah, School of Computing

Oct 2018 Colby College, Mathematics and Statistics Department

Jun 2018 Mitsubishi Electric Research Laboratories

Mar 2018 Carnegie Mellon University, Process Systems Engineering

Feb 2018 Brookhaven National Laboratory, Computational Science Initiative

Jun 2017 Northeastern University, INFORMS Student Chapter

TEACHING EXPERIENCE

Bucknell University

ANOP 390: Honors Course in Analytics and O.M. Spring 2022: 1 student Fall 2021: 1 student	Undergraduate	Instructor
ANOP 370: Prescriptive Analytics Fall 2022: 19 students Fall 2021: 22 students	Undergraduate	Instructor
ANOP 310: Independent Study in Analytics and O.M. Spring 2022: 1 student Fall 2022: 3 students Spring 2022: 3 students Spring 2021: 1 student	Undergraduate	Instructor
ANOP 203: Intro. to Programming for Business Analytics Spring 2022: 23 and 18 students Spring 2021: 20 and 14 students Fall 2020: 19 students Spring 2020: 22 students Fall 2019: 21 students	Undergraduate	Instructor
ANOP 102: Spreadsheet Modeling and Data Analysis Fall 2022: 21 and 21 students Spring 2022: 21 students Fall 2021: 23 students Spring 2021: 23 students Fall 2020: 20 students	Undergraduate	Instructor
MGMT 102: Quantitative Reasoning for Managers Spring 2020: 23 students Fall 2019: 21 students	Undergraduate	Instructor

Carnegie Mellon University

70-460: Mathematical Models for Consulting Fall 2016: 25 students	Undergraduate	Instructor
45-751: Optimization Spring 2017 Spring 2016	MBA	Recitation Leader
06-805: Disjunctive Programming Spring 2016	PhD	Teaching Assistant
45-751: Optimization Fall 2015	MBA	Teaching Assistant

45-850: Applications of Operations Research
Fall 2015

MBA

Teaching Assistant

University of Campinas

MC 326: File Structures
Fall 2006

Undergraduate Teaching Assistant

TEACHING-RELATED TRAINING

<i>Teaching Effectiveness Colloquium</i>	INFORMS	2022
<i>Teaching Effectiveness Colloquium</i>	INFORMS	2021
<i>Teaching Circles</i>	Teaching and Learning Center, Bucknell University	2020
<i>Course Design and Pedagogy Workshop</i>	Teaching and Learning Center, Bucknell University	2019
<i>Future Faculty Program</i>	Eberly Center, Carnegie Mellon University	2014–17
<i>Teaching Effectiveness Colloquium</i>	INFORMS	2017
<i>Teaching Effectiveness Colloquium</i>	INFORMS	2016
<i>Acting for Non-Majors</i>	School of Drama, Carnegie Mellon University	2015
<i>Language and Culture for Teaching</i>	ICC, Carnegie Mellon University	2013

PROFESSIONAL SERVICE

Award Committees

- Judge, INFORMS Annual Meeting Poster Award, 2022
- Judge, INFORMS Minority Issues Forum (MIF) Paper Competition, 2022
- Reviewer, CORS Undergraduate Competition, 2022
- Judge, INFORMS Annual Meeting Poster Award, 2021
- Chair, INFORMS Undergraduate Operations Research Prize, 2020
- Member, INFORMS Undergraduate Operations Research Prize, 2018 – 2019

Professional Organizations

- Chair, INFORMS Computing Society, 2024 – 2025 (Exp.)
- Vice Chair / Chair-Elect, INFORMS Computing Society, 2022 – 2023
- Member, INFORMS K-12 Outreach Subcommittee, 2020 – 2021
- Member, INFORMS Education Strategy Committee, 2017 – 2021
- Consulting Board Member, INFORMS Student Chapter at Carnegie Mellon, 2017 – 2018
 - ♦ 2018 INFORMS Student Chapter Award: Magna Cum Laude
- President, INFORMS Student Chapter at Carnegie Mellon 2015 – 2017
 - ♦ 2017 INFORMS Student Chapter Award: Magna Cum Laude
 - ♦ 2016 INFORMS Student Chapter Award: Suma Cum Laude
 - ♦ 2016 INFORMS Judith Liebman Award
- Co-Founder and Secretary, INFORMS Student Chapter at Carnegie Mellon, 2014 – 2015

Senior Program Committee Member

- AAAI Conference on Artificial Intelligence (AAAI) 2023

Conference Reviewer / Program Committee Member

- AAAI / ACM Conference on Artificial Intelligence, Ethics, and Society (AIES) 2022
- International Conference on Learning Representations (ICLR) 2022, 2023
- Neural Information Processing Systems (NeurIPS) 2021, 2022, 2023
- International Conference on Machine Learning (ICML) 2021, 2022
- Annual Conference on Innovative Applications of Artificial Intelligence (IAAI) 2021
- AAAI Conference on Artificial Intelligence (AAAI) 2020, 2021
- Learning and Intelligent Optimization Conference (LION), Automatic Solver Configuration 2020

Conference Cluster or Track Chair

- Computing Society, INFORMS Annual Meeting 2023
- Computing Society, INFORMS Annual Meeting 2022
- Computing Society, CORS-INFORMS International Conference 2022
- Optimization Methods in Machine Learning, INFORMS Computing Society Conference 2022
- Emerging Applications Track, INFORMS Optimization Society Conference 2020

Panels

- Panelist at Funding the Future: Proposal Development Workshop for Computer Scientists and Grants Officers, The Council of Independent Colleges, 2023
- Panelist at Optimization Myths, Misconceptions, and Imperfect Understandings, Gurobi Workshop, INFORMS Annual Meeting 2022
- Moderator at AI in Practice Panel: Forecasting in Unprecedented Times, AAAI 2021
- Panelist at the Academic Job Market Panel, INFORMS Annual Meeting 2019

Other Roles in Conference Organization

- Sponsorship Chair, CPAIOR 2022
- Co-Chair of Sponsored Sessions, CORS-INFORMS International Conference 2022
- AI in Practice Chair, AAAI Conference on Artificial Intelligence (AAAI) 2021
- Outreach Chair, Annual Conference on Innovative Applications of A.I. (IAAI) 2021
- FacilitatOR, INFORMS Annual Meeting 2020 – 2021
- Panelist at the Academic Job Market Panel, INFORMS Annual Meeting 2019
- Blogger, INFORMS Annual Meeting 2012 – 2019
- Twitter Curator, International Symposium on Mathematical Programming (ISMP) 2015

Ad-hoc Journal Reviewer

- Annals of Operations Research (2018 – 2021)
- Constraints (2018 – 2020)
- European Journal of Operational Research (2021 – 2023)

- IEEE Transactions on Neural Networks and Learning Systems (2020)
- International Transactions in Operational Research (2019 – 2021)
- Journal of Global Optimization (2020)
- Journal of Machine Learning Research (2022)
- Mathematical Programming (2019)
- Networks (2021)
- SN Operations Research Forum (2022 – 2023)
- SIAM Journal on Applied Algebra and Geometry (2021 – 2022)
- Transportation Research B: Methodological (2018 – 2019)

Conference Subreviewer

- AAAI Conference on Artificial Intelligence (AAAI) 2017
- American Control Conference (ACC) 2020, 2021
- Conference on Integer Programming and Combinatorial Optimization (IPCO) 2021, 2022
- International Conference on Principles and Practice of Constraint Programming (CP) 2016, 2017
- International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR) 2017, 2018, 2019

BUCKNELL SERVICE

Student Organizations

- Founding Faculty Advisor, Omega Rho Honors Society Chapter at Bucknell, 2021 – Present
- Faculty Advisor, Machine Learning Association, 2022 – Present

Advising Undergraduate Research Projects

- Georgia Corbett (Presidential Fellow, Fall 2020)
- James Andradas (Academic Year Program, Spring 2021; NSF Grant, Summer 2021 – Fall 2021)
- Ethan Roberti (Independent Study, Spring 2021)
- Yinuo Jing (Emerging Scholar, Summer 2021)
- Hannah Sieg (Emerging Scholar, Summer 2021; NSF Grant, Fall 2021 – Present)
- Aidan Good (NSF Grant, Summer 2021 – Present)
- Thomas Stone (NSF Grant, Summer 2021 – Fall 2021)
- Alexa Horvath (Presidential Fellow, Fall 2021 – Fall 2022)
- Mikey Ferguson (Presidential Fellow, Fall 2021 – Fall 2022)
- Mark Pesacreta (Honors Thesis, Fall 2021 – Spring 2022)
- Pedro Carneiro Passos (NSF Grant, Fall 2021)
- Jacky Lin (NSF Grant, Fall 2021 – Spring 2022)
- Yanjing Huang (Independent Study, Spring 2022; NSF Indirect Costs, Summer 2022)
- Alexander Simpson (Independent Study, Spring 2022; Provost Funds, Spring 2023)
- Jason Searles (Independent Study, Spring 2022)
- Sophia Wills (Academic Year Program, Spring 2022)
- Jeffrey Cai (NSF Grant, Spring 2022 – Present)

- Nguyen Nguyen (NSF Grant, Spring 2022 – Present)
- Ruisen Tu (NSF Grant, Spring 2022 – Summer 2022)
- Yuqin Yang (Emerging Scholar, Summer 2022; NSF Grant, Fall 2022 – Present)
- Nishant Shrestha (NSF Grant, Spring 2022 – Present)
- Stanley Gai (NSF Indirect Costs, Summer 2022 – Fall 2022; Provost Funds, Spring 2023)
- Rahul Sibal (STEM Scholar, Summer 2022)
- Linh Nguyen (Independent Study, Fall 2022 – Present)
- Changkun Guan (Independent Study, Fall 2022 – Present)
- Farhaj Shahid (Provost Funds, Spring 2023 – Present)
- Jahnia Treadwell (Provost Funds, Spring 2023 – Present)

Academic Advising (Undeclared Management Students and ANOP Majors)

- Spring 2023: on leave
- Fall 2022: 28 students
- Spring 2021: 32 students
- Fall 2021: 34 students
- Spring 2020: 21 students
- Fall 2020: 19 students

Experiential Activities with Students

- 2022 Business Analytics Competition at Manhattan College (2nd round, 10th place)
- 2021 Champion Analytics Case Competition at Elon University (2nd place)

Classroom Guests in Courses Taught

- Serdar Kadioglu, Fidelity (ANOP 370, Fall 2022)
- John Hooker, Carnegie Mellon University (ANOP 370, Fall 2022)
- Meinolf Sellmann, InsideOpt (ANOP 370, Fall 2022)
- Craig Silverman, Class of 2020, Kraft Analytics Group (ANOP 102, Spring 2022)
- Polly Mitchel-Guthrie and Erik Pulido, Kinaxis (ANOP 102, Spring 2022)
- CJ Falcioni, Class of 2020, Carlyle (ANOP 102, Fall 2021)
- Wes Gurnee, MIT ORC (ANOP 370, Fall 2021)
- Cristiana Lopes Lara, Amazon (ANOP 370, Fall 2021)
- Mike Trick, Carnegie Mellon University Qatar (ANOP 370, Fall 2021)
- Carolyn Mooney, nextmv (ANOP 370, Fall 2021)
- Kayla Cummins, MIT ORC (ANOP 370, Fall 2021)
- Lucas Waddell and Matt Bailey, Bucknell Math and ANOP (ANOP 370, Fall 2021)
- Bob Bosch, Oberlin College (ANOP 370, Fall 2021)
- Deepak Agrawal, American Airlines (ANOP 102 and ANOP 350, Spring 2021)
- Polly Mitchel-Guthrie and Erik Pulido, Kinaxis (ANOP 102 and ANOP 350, Spring 2021)
- Alexander Yu, AT Kearney (ANOP 102, Fall 2020)
- David Bergman, University of Connecticut and McKinsey (ANOP 102, Fall 2020)
- Anna Saez de Tejada Cuenca, IESE Barcelona (ANOP 102, Fall 2020)

- Richard Lee, ForUsAll (ANOP 102, Fall 2020)
- David Sandora, Wesco Distribution (ANOP 102, Fall 2020)

Invited Lectures in Other Courses

- CSCI 201: Computer Science Seminar, Xiannong Meng, Fall 2022
- UNIV 200: Technology and Social In/Justice, Amal Kabalan and Sally Koutsoliotas, Spring 2022
- MGMT 100: Exploring Management, Ed Ng, Fall 2020
- CSCI 201: Computer Science Seminar, Evan Peck, Fall 2019

Panels and Short Presentations

- Faculty Scholarship Reception, Library & IT, Spring 2022
- Research in the Time of Covid, Provost Office, Spring 2021
- Diversity in the Workplace, Senior Class Senate, Spring 2021
- New Faculty Orientation Panel, Provost Office, Fall 2021

Committees and Service to the University

- Organization of Ice Cream Social, July 2022
- Search Committee Member, Clinical Professor of Business Analytics, 2022
- Blink Summer Camp, Freeman College of Management, 2021
- Search Committee Member, Sidney L. Miller Professor of Management, 2020 – 2021
- College Representative, Undergraduate Research Advisory Committee (URAC), 2020 – Present
- Department Representative, Library & IT, 2019 – Present

REFERENCES

Available upon request.