

Priyanga Ganesan

Curriculum Vitae

Contact Information

AFFILIATION Texas A&M University, College Station, USA
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Education

2017 - present **Ph.D in Mathematics** 4.0/4.0
Texas A&M University (TAMU) , College Station, USA
Advisor: Dr. Michael Brannan

2012 - 2017 **Integrated M.Sc (Mathematics)** 9.4/10
National Institute of Science Education and Research (NISER), India
Advisor: Prof. Anil Karn

MASTER'S THESIS: Spectral Theory for Ordered Spaces ([view thesis](#))

Research Interests

Functional Analysis, Operator Algebras & Quantum Information Theory.

Publications & Preprints

1. **The Quantum-to-Classical Graph Homomorphism Game**, Michael Brannan, Priyanga Ganesan and Samuel Harris, 40 pages, Submitted to *Communications in Mathematical Physics* [[arXiv:2009.07229](#)].
2. **Quantum Majorization on Semifinite von Neumann Algebras**, Priyanga Ganesan, Li Gao, Satish K. Pandey and Sarah Plosker, 49 pages, *Journal of Functional Analysis*, 279 (2020) [[arXiv:1909.10038](#)].

Teaching Experience

- **Graduate Teaching Assistant**, Texas A&M University *Fall 2017 - present*

Spring 2021	Instructor of Record	Math 168: Finite Mathematics (online)
Fall 2020	Instructor of Record	Math 168: Finite Mathematics (online)
Spring 2020	Recitations & Lab Instructor	Math 151: Engineering Calculus I
Fall 2019	Recitations Instructor	Math 150: Functions, Trigonometry & Linear systems
Summer(II) 2019	Instructor of Record	Math 142: Business Calculus
Spring 2019	Recitations & Lab Instructor	Math 152: Engineering Mathematics II
Fall 2018	Recitations Instructor	Math 150: Functions, Trigonometry & Linear systems
Summer(I) 2018	Help session Instructor	Math 152: Engineering Mathematics II
Spring 2018	Grader	Math 436: Introduction to Topology
Fall 2017	Grader	Math 601: Methods of Applied Mathematics I
- **Teaching Assistant**, NISER *Spring 2017*

Mentoring Activities

One-on-One Mentoring

- 2019 - present **Graduate Mentor**, [Directed Reading Program in Mathematics](#), TAMU
(supervise undergraduate student on a semester-long reading project in Mathematics)
- Yeojoon Moon, *Stability Analysis of Linear Systems* (Fall 2020)
- Jaqueline Gonzalez, *One & Two Dimensional Flows* (Spring 2020)
- Yun Lu, *Unsupervised Learning: K-Mean Clustering & PCA* (Fall 2019)
- James Woodcock, *Convergence of Series in Banach Spaces* (Spring 2019)
- 2019 - present **Peer Mentor**, [Peer Mentoring Program in Mathematics](#), TAMU
(paired with an incoming graduate student in Mathematics to help them navigate through graduate life)
- Manaswinee Bezbaruah (2019 - 2020)
- Valentia Fragkiadaki (2019 - 2020)
- Jennifer Zhu (2020 - 2021)
- 2020 - 2021 **Mentor**, [Khorana and Bose Mentor Network](#)
(mentor Khorana-Bose fellows from India in finding graduate school opportunities in the US)
Mentees: Saksham Gupta, Sheth Dev Yashpal, N K U Sarada Anoushka
- 2018 - present **Departmental Mentor**, [Indian Graduate Students Association](#), TAMU
(help incoming Indian graduate students to adjust to the new country and serve as a resource person for the Math department)
- June 2019 **Counselor**, [Summer Mathematics Research Training \(SMART\) High School Camp](#), TAMU
(mentored a group of 5 high school students during a two-week summer Math camp)
- 2018 - 2019 **Counselor**, [Grad Camp](#), TAMU
(introduced group of 12 incoming graduate students to Aggie traditions and resources on campus)

Mentorship programs organized

1. Mentoring Lunches for Women in Mathematics

President (2020 - 2021), [Association for Women in Mathematics TAMU Chapter](#)

These are monthly themed lunches, where women in the department at all stages of their careers come together and discuss professional development topics like research, teaching, networking and work-life balance.

2. Mentor Network for Young Women in Operator Algebras

Board Member (2020 - 2021), [Operator Algebras Mentor Network](#)

The mission of this international network is to retain women and under-represented groups in operator algebras and provide early-career operator algebraists with a trusted ally (outside their parent institution) in the event of abuse / harassment.

3. Peer Mentoring Program in Mathematics

President (2020 - 2021), [Association for Women in Mathematics TAMU Chapter](#)

The peer mentoring program is a support system designed to ensure a smooth transition into graduate life and beyond. First and second year graduate students are matched with senior graduate students.

4. Mentoring Webinars for new Indian graduate students

Vice-President (2020 - 2021), [Indian Graduate Students Association](#), TAMU

We organize webinars to help incoming Indian graduate students move to Texas A&M and provide resources (like temporary accommodation and departmental mentors) to help with the transition.

Research Projects

CIRTL TAR PROJECT 2020 - 2021	Student engagement in an online classroom Faculty Mentor: Dr. Tamara Carter and Dr. Alexandra Foran , TAMU We study student preferences and perceptions of the effectiveness of different engagement techniques in a synchronous online course (IRB2020-0864)	(in progress)
INDUSTRY PROJECT July, 2020	Modeling equity-linked insurance benefits Mentor: Marshall Lagani and Dr. Gary Hatfield , <i>Securian Financial</i> Investigated methods to minimize the tradeoff between computational cost and accuracy in intraday estimation of the greeks Delta and Rho for reducing risks in equity-linked products.	(report)
INTERNSHIP May - July, 2016	Equidistribution of Lattice points on Spheres Supervisor: Prof. Jean-François Quint , <i>IMB, Université de Bordeaux, France</i> Studied Duke's strategy of proving an equidistribution result for integral points on large spheres, using the theory of modular forms.	(report)
NIUS PROJECT 2013 - 2015	Measurement of Electron Mass using Compton Scattering Supervisor: Prof. P.K. Joshi and Prof. Rudrajyoti Palit , <i>TIFR, Mumbai</i> Determined rest mass energy of electron using Compton scattering of Gamma rays.	(report)
INTERNSHIP May - July, 2015	Quantitative Analysis of Trapping Stochastic Movers Supervisor: Prof. Jeffrey Schenker , <i>Michigan State University, USA</i> Estimated hitting probabilities of bounded regions for certain self correlated random walks, using MATLAB simulations.	(report)
INTERNSHIP May - July, 2014	Mathematical Modeling using Differential Equations Supervisor: Prof. Peeyush Chandra , <i>Indian Institute of Technology, Kanpur</i> Proposed a mathematical model to study the impact of awareness programs on drug addiction and analyzed the local stability of equilibrium states.	(report)
INTERNSHIP May - July, 2013	Introduction to Dynamical Systems Supervisor: Prof. Sitabhra Sinha , <i>Institute of Mathematical Sciences, Chennai</i> Studied basics of non-linear dynamics and performed stability analysis of some 2D systems using MATLAB.	(report)

Grants

- Feb 2020 **Campus Climate Grant Program**, \$500 USD,
Awarded to the *Indian Graduate Student Association* at Texas A&M for its positive impact on campus climate.
- Nov 2019 **Summer Math Foundation Grant**, \$500 USD,
Awarded to the *Association for Women in Mathematics TAMU Chapter* to advance women's scholarship.
- July 2019 **NSF Grant - DMS-1937317**, Co-PI, \$8000 USD,
Conference grant - *Texas Women in Mathematics symposium 2020*,
(Jointly with Laura Matusevich (PI), Nida Obatake, Aleksandra Sobieska and Elise Walker).
- Apr 2019 **Texas A&M College of Science Diversity and Equity Grant**, \$2000 USD,
Conference grant - *Texas Women in Mathematics symposium 2020*,
(Jointly with Laura Matusevich, Nida Obatake, Aleksandra Sobieska and Elise Walker).

Mar 2019 **MAA Tensor Women and Mathematics Grant**, \$6000 USD,
Conference grant - *Texas Women in Mathematics symposium 2020*,
(Jointly with Laura Matusevich, Nida Obatake, Aleksandra Sobieska and Elise Walker).

Fellowships & Awards

2020 - 2021 **CIRTL Teaching-As-Research Fellowship**, Texas A&M
2020 - 2021 **Association of Former Students Scholarship** (Academic Excellence Award), Texas A&M
2020 - 2021 **Southerland Aggie Leader Scholarship**, Association of Former Students, Texas A&M
2019 - 2020 **GPSG Aggie Core Values Award**, Texas A&M
2019 - 2020 **AB & Hazell H Carter Scholarship** (Academic Excellence Award), Texas A&M
2017 - 2019 **The N.W Naugle Fellow in Mathematics**, Graduate Fellowship, Texas A&M University
2017 Other awards *declined* for graduate position at Texas A&M:
Provost Doctoral Entrance Award for Women and
International Doctoral Student Award, University of Waterloo
Arenstorff Fellowship, Vanderbilt University
Presidential Fellowship, University of Houston
Junior Research Fellowship (Mathematics), CSIR, Govt. of India
Graduate Assistantship, Purdue University
Teaching Assistantship, University of Illinois Urbana-Champaign
2012 - 2017 **INSPIRE Scholarship**, Department of Science & Technology, Govt. of India
Summer 2016 **Summer Research Fellowship**, Indian Institute of Technology, Chennai (declined)
Summer 2015 **S.N. Bose Fellowship**: Indo-US fellowship for summer research
Summer 2015 **ICTS - S.N. Bhatt Excellence fellowship** (declined)
Summer 2014 **Summer Research Fellowship**, The Indian Academy of Sciences
2013 - 2015 **National Initiative for Undergraduate Science Fellowship** (Physics),
Homi Bhabha Center for Science Education, India
Fall 2013 **Overall Topper Award** (for highest CGPA across the institute) and
Mathematics Batch Topper Award, Semester III, NISER
Summer 2013 **Summer Fellowship**, Indian Statistical Institute, Chennai (declined)
Summer 2013 **Summer Research Fellowship**, Indian Institute of Technology, Gandhinagar (declined)
Spring 2013 **NISER Overall Topper Award** and
Batch Topper Award, Semester II, NISER
2012 **KVS Merit Scholarship** : Top 1% scorer among 1.1 million students in
All India Senior School Certificate Examination, CBSE
2011 Invited as **Prime Minister's Guest** to Republic Day Parade, New Delhi
for *Outstanding Academic Performance* in Class X, CBSE exam.
2010 **KVS Merit Scholarship** for A1 grade in all subjects, AISSE-2010

Travel Awards

Jan 2021 **AMS Virtual Graduate Student Travel Grant** for attending Joint Mathematics Meetings
2021, \$50 USD

- Jan 2020 Travel support for attending **Quantum Symmetries Workshop** at MSRI, Berkeley \$600 USD.
- Jan 2020 Travel support for attending **Quantum Information Processing Conference** at Shenzhen, China, \$950 USD. (NSF-grant DMS-1946395)
- Oct 2019 Travel support for attending **East Coast Operator Algebras Symposium** at Ohio State University, Columbus, \$800 USD. (NSF-grant DMS-1936283)
- Sept 2019 Travel support from UCL for attending **Analytical and Combinatorial Aspects of Quantum Information Theory Workshop** at International Center of Mathematical Sciences, Edinburgh, 500 GBP.
- Aug 2019 Travel support for attending **Young Mathematicians in C^* -Algebras** conference (YMC^{*}A / YWC^{*}A) at University of Copenhagen, Denmark, \$1900 USD. (NSF-grant DMS-1900134)
- June 2019 Travel support for attending **Summer Research Program on Quantum Symmetries** at Ohio State University, Columbus, \$600 USD. (NSF-grant DMS-1654159)
- May 2019 Travel support for attending **Thematic program on Operator Algebras, Groups and applications to Quantum Information** at ICMAT-Madrid, Spain, \$1600 USD. (NSF-grant DMS-1901290)
- Dec 2018 **Graduate Travel Award** by Department of Mathematics, Texas A&M for the conference *Recent Advances in Operator Theory and Operator Algebras* at ISI, Bangalore, \$400 USD

Presentations given

Invited Talks

- Feb 2021 Quantum-to-Classical Graph Homomorphisms, **Quantum Symmetries Student Seminar, Ohio State University** (online)
- Jan 2021 Quantum Graph Homomorphism, **Joint Mathematics Meetings - special session on Advances in Operator Algebras** (Online)
- Dec 2020 Quantum Graph Homomorphism, **Analysis seminar, University of Glasgow, UK** (online)
- Nov 2020 Quantum Graph Homomorphism, **C^* -algebra seminar, Arizona State University** (online)
- Nov 2020 Introduction to Quantum Graphs, **MathematiX Club, NISER**
- Jun 2020 Understanding Quantum Graphs, **Research Experience for Undergraduates Summer Programs: Grad Research Talks, TAMU**
- Dec 2019 Quantum Majorization in Infinite Dimensions, **Analysis seminar, Indian Institute of Technology, Kanpur**
- Dec 2019 Quantum Majorization in Infinite Dimensions, **Analysis seminar, Indian Statistical Institute, Bangalore**
- Dec 2019 Quantum Majorization in Infinite Dimensions, **Inverse Problems and Analysis seminar, University of Delaware**
- Jan 2019 Factorization of identity map through large diagonal operators, **Mathematics Department Seminar, NISER**

Contributed Talks

- Jan 2021 Quantum Graphs, **Groups, Operators and Banach Algebras Webinar**
- May 2019 Introduction to Quantum Majorization, **Thematic program on Operator Algebras, Groups and Applications to Quantum Information - Workshop II, ICMAT, Madrid**

- Feb 2019 Order structure on vector spaces, **AMS - Gathering in Graduate Expository Mathematics (GIG'EM) Conference**, *Texas A&M University*
- Nov 2018 A factorization problem in l^p spaces, **Texas Women in Math Symposium**, *University of Houston, Texas*
- Dec 2017 Spectral Theory for Jordan Algebras, **Texas Women in Math Symposium**, *Sam Houston University, Texas*
- July 2015 Quantitative analysis of trapping stochastic movers, **Summer Undergraduate Michigan Mathematics Research Conference**, *Michigan State University*

Poster presentations

- Sept 2020 Quantum Majorization in Infinite Dimensions, **Virtual Heidelberg Laureate Forum** (online)
- Jan 2020 Quantum Majorization in Infinite Dimensions, **Connections for Women: Quantum Symmetries**, *MSRI, Berkeley*
- Jan 2020 Quantum Majorization in Infinite Dimensions, **Quantum Information Processing Conference**, *Shenzhen, China*
- Aug 2015 Quantitative analysis of trapping stochastic movers, **Student Symposium for S.N.Bose Scholars Program**, *Indian National Science Academy, New Delhi*
- July 2015 Quantitative analysis of trapping stochastic movers, **Mid-Michigan Symposium for Undergraduate Research Experiences**, *Michigan State University*

Local Seminar Talks

- Apr 2020 Introduction to Quantum Graphs, *Graduate Student Seminar*, Texas A&M
- Nov 2019 Quantum Majorization in Infinite Dimensions, *Linear Analysis Seminar*, Texas A&M
- Jan 2020 Mixed states and general quantum operations, *Working Seminar in Quantum Computation & Quantum Information*, Texas A&M
- Apr 2019 Modular properties of the Haar state, *Working Seminar on Quantum Groups*, Texas A&M
- Feb 2019 Quantum dimension & orthogonality relations, *Working Seminar on Quantum Groups*, Texas A&M
- Feb 2019 Representations of compact quantum groups, *Working Seminar on Quantum Groups*, Texas A&M
- Dec 2018 C^* -Algebra of Compact Operators, *Reading Seminar on Intro to Operator Algebras*, Texas A&M
- Oct 2018 Von Neumann entropy and majorization, *Working Seminar in Quantum Computation & Quantum Information*, Texas A&M
- Apr 2017 Spectral theory for Jordan Algebras, *Term presentation*, NISER
- Nov 2016 Spectral theory for Ordered Spaces, *Term presentation*, NISER
- Apr 2016 Compressions on Ordered Vector Spaces, *Term presentation*, NISER
- Nov 2015 Smooth Projections on Ordered Vector Spaces, *Term presentation*, NISER
- Dec 2015 Measurement of electron mass using Compton scattering, *DNAP Lab Seminar*, Tata Institute of Fundamental Research, Mumbai
- Aug 2014 Mathematical Modeling, *MathematiX Club Student Seminar*, NISER

Outreach Talks

- Feb 2019 Knights and Liars, (Beginner and Intermediate level) **Math Circle**, TAMU
Dec 2019 Traveling through the checkerboard, **Math Circle**, TAMU
July 2019 Pick's Theorem, **Summer Educational Enrichment in Math Camp**, TAMU
Apr 2019 The $a + b + ab$ problem, **Math Circle**, TAMU
Aug 2018 Four Color Theorem, **Summer Educational Enrichment in Math Camp**, TAMU
Mar 2015 Types of Infinities, **Science Open Day**, *NISER*
Mar 2014 Game Theory, **Science Open Day**, *NISER*

Conferences & Workshop participation

- Mar 2021 **AIM Workshop: Fusion categories and tensor networks** (invited), San Jose
Jan 2021 IPAM Program **Actions of Tensor Categories on C*-algebras**, (online)
Jan 2021 **Joint Mathematics Meeting**, (online)
Nov 2020 **Brazos Analysis Seminar**, (online)
Oct 2020 **East Coast Operator Algebras Symposium**, *University of Virginia* (online)
Oct 2020 **TAMU Gathering in Graduate Expository Mathematics (GIG'EM) Conference** (online)
Oct 2020 **Vaishvik Bhartiya Vaigyanik (VAIBHAV) Summit** (online)
Sept 2020 **Virtual Heidelberg Laureate Forum** (online)
Sept 2020 **Science & Research Opportunities in India (Sci-ROI) Annual Meet** (online)
July 2020 **Math to Industry Boot Camp V** (online),
Institute for Mathematics and its Applications, University of Minnesota.
May 2020 **48th Canadian Operator Symposium** (online)
Jan 2020 **Connections for Women: Quantum Symmetries**, *MSRI, Berkeley*
Jan 2020 **Quantum Information Processing Conference**, *Shenzhen, China*
Nov 2019 **QLA meets QIT** (invited), *Purdue University*
Nov 2019 **Brazos Analysis Seminar** (Fall 2019 Meeting), *Baylor University, Texas*
Oct 2019 **East Coast Operator Algebras Symposium**, *Ohio State University, Columbus*
Sept 2019 **Analytical and Combinatorial Aspects of Quantum Information Theory Workshop**,
International Center of Mathematical Sciences, Edinburgh
Aug 2019 **Young Mathematician's in C*-algebras (YMC*A / YWC*A)**,
University of Copenhagen, Denmark
Jul 2019 **Summer Informal Regional Functional Analysis Seminar (SUMIRFAS)**, TAMU
June 2019 **Summer Research Program on Quantum Symmetries**, *Ohio State University, Columbus*
May 2019 **Great Plains Operator Theory Symposium (GPOTS)**, TAMU
May 2019 **Thematic program on Operator Algebras, Groups and Applications to Quantum Information - School II**, *ICMAT, Madrid*
Apr 2019 **Association for Women in Mathematics (AWM) Research Symposium**, *Rice University, Houston*
Mar 2019 **Brazos Analysis Seminar** (Spring 2019 Meeting), *University of Houston, Texas*

- Dec 2018 **Recent Advances in Operator Theory and Operator Algebras**, *Indian Statistical Institute, Bangalore*
- Nov 2018 **Texas Women in Math Symposium**, *University of Houston, Texas*
- Nov 2018 **Women in Operator Algebras Workshop**, *Banff International Research Station, Canada*
(participated via video conferencing)
- Oct 2018 **East Coast Operator Algebras Symposium**, *Texas Christian University, Fort Worth*
- Sep 2018 **Brazos Analysis Seminar** (Fall 2018 Meeting), *Texas A&M University*
- Aug 2018 **Summer Informal Regional Functional Analysis Seminar (SUMIRFAS)**, *Texas A&M University*
- May 2018 **Great Plains Operator Theory Symposium (GPOTS)**, *Miami University, Ohio*
- Mar 2018 **AMS Gathering in Graduate Expository Mathematics (GIG'EM) Conference**, *Texas A&M University*
- Mar 2018 **Brazos Analysis Seminar** (Spring 2018 Meeting), *Baylor University, Texas*
- Dec 2017 **Texas Women in Math Symposium**, *Sam Houston University, Texas*
- Nov 2017 **Brazos Analysis Seminar** (Fall 2017 Meeting), *University of Houston, Texas*
- Sep 2017 **Women in STEM Conference**, *Texas A&M University*
- Feb 2017 **Non-Commutative Analysis Conference**, *Institute of Mathematical Sciences, Chennai*
- Mar 2016 **Advanced Training in Mathematics Workshop on Probability and Representation Theory**, *Institute of Mathematical Sciences, Chennai*
- Feb 2015 **International workshop on Applications of Systems and Mathematical Biology in Public health**, *NISER, Bhubaneswar*
- Dec 2014 **Annual Foundation School - I in Mathematics**, *NISER, Bhubaneswar*
- Dec 2013 **6th Science Conclave - A Congregation of Nobel Laureates**, *Indian Institute of Information Technology, Allahabad*
- Oct 2013 **Madhava Mathematics Nurture Camp**, *St. Xavier's College, Kolkata*
- Jul 2013 **Mathematics: aspects, prospects and a bit of history**, *Institute of Mathematical Sciences, Chennai*
- Jun 2013 **National Initiative for Undergraduate Science - Physics (Camp X)**, *Homi Bhabha Center for Science Education, Mumbai*
- Dec 2012 **National Seminar on Emerging Trends in Mathematics**, *Vidyasagar University, West Bengal*
- Dec 2012 **National Science (Vijyoshi) Camp**, *Indian Institute of Science, Bangalore*

Service

Leadership

- 2020 - 2021 **President**, [Association for Women in Mathematics, Texas A&M Chapter](#)
Vice-President (2019 - 2020)
Treasurer (2018 - 2019)
- 2020 - 2021 **Vice-President** of Mentoring, [Indian Graduate Students Association](#), TAMU
Senior Director (Summer 2020)
Director (Spring 2020)
- Spring 2019 - **Senator**, [Graduate & Professional Student Government](#), TAMU
- Spring 2019 - Mathematics Delegate, **Dean's Graduate Advisory Council**, College of Science, Texas A&M
- 2020 - 2021 **Graduate Instructional Committee Delegate**, College of Science, Texas A&M
- Fall 2020 **Sciences Career Fair Ambassador**, TAMU
- May 2020 - **Point of Contact for Texas A&M**, [Science Research Opportunities in India](#) (Sci-ROI)
- Feb 2020 **Co-organizer**, [Texas Women in Math Symposium](#) (TWIMS)
- 2018 - 2020 **Departmental Representative**, [Women in Science and Engineering](#) (WISE), TAMU
- Spring 2020 **Staff Advisor**, [Alternative Spring Break Organization](#), TAMU
- 2019 - 2020 **Treasurer**, Bhakti Yoga Club, TAMU
- Feb 2019, 2018 **Co-organizer**, Annual Mathematics & Statistics Fair, Texas A&M
- Feb 2019 **Student Ambassador**, Hagler Institute for Advanced Study Gala, TAMU
- 2015 - 2017 **Student Coordinator**, Nature Club, NISER

Committees & Panels served

- 2020 - 2021 **Board Member**, [Operator Algebras Mentor Network](#)
- 2020 - 2021 **Math Graduate Student Diversity Committee**, TAMU
- May 2020 **AFS College Level Teaching Awards Selection Committee**, Texas A&M
- Feb 2020, 2019 **Susan M. Arseven Memorial Award Selection Committee Member**, TAMU
- Jan 2019 **Panelist**, REU Information Session, TAMU
- Nov 2018 **Ethel Award Selection Committee Member**,
Ethel Ashworth-Tsutsui Memorial Awards for Research and Mentoring, TAMU
- Sep 2018 **Panelist**, "Adjusting to Grad School", First Year Graduate Student Seminar, TAMU
- Feb 2018 **Planning Committee Member**, Mathematics & Statistics Fair, TAMU
- Jan 2018 **Panelist**, REU Information Session, TAMU

Outreach

- Oct 2020 **Student Volunteer**, Annual TX-LA SIAM Meeting (online)
- Mar 2020, 2019 **Science Judge**, Texas Regional Junior Science Bowl Competition
- Oct 2019 **Volunteer**, Chemistry Open House, Texas A&M
- Oct 2019, 18, 17 **Judge**, Texas Junior Academy of Science Competition
- Aug 2019, 2018 **Graduate Instructor**, Summer Educational Enrichment in Math, TAMU
- Mar 2019, 2018 **Judge** (Oral & poster presentation), Student Research Week, TAMU

Feb 2019, 2018 **Science Judge**, Texas Regional High School Science Bowl Competition
 Jan 2019, 2018 **Judge** (Math/Computer Science division), Texas Junior Science and Humanities Symposium
 Nov 2018 **Proctor**, Mathworks Math Contest, TAMU
 Oct 2018, 2017 **Question Writer**, Derivative Bee Contest, TAMU
 Sept 2018 **Volunteer**, Sciences Career Fair, TAMU
 Jun 2018 **Proctor**, 2018 Elementary School National Mathematics Championship, USA
 Apr 2018 **Grader & Proctor**, Texas Science Olympiad
 Mar 2018 **Question Writer**, Integral Bee Contest, TAMU
 Oct 2017 **Grader**, Texas High School Math Contest
 2017 - present **Volunteer**, Math & Stat Fair, TAMU
 2017 - present **Volunteer**, Math Circle, TAMU
 2013 - 2017 **Volunteer**, Science Open Day, *NISER*

Review Activities

Refereed articles for the book - *Association for Women in Mathematics 50th Anniversary Volume* (Springer Series)

Professional Memberships

Aug 2017 - present American Mathematical Society (**AMS**)
 Aug 2017 - present Association for Women in Mathematics (**AWM**)
 Aug 2017 - present Mathematical Association of America (**MAA**)

Miscellaneous

Computational skills: C++, Python, MATLAB, Scilab, Octave, Python-Jupyter interface, RStudio
 LaTeX, HTML, GNUplot, MySQL, Shell script, Microsoft Office
Languages: English, Hindi, Sanskrit, Tamil
Extracurricular: National level Chess player (FIDE rating: 1600)
 Recipient of *Rajya Puraskar* - Bharat Scouts and Guides (2008)

Academic Referees

- **Dr. Michael Brannan**
 Assistant Professor,
 Department of Mathematics,
 Texas A&M University, USA
 Email: mbrannan@math.tamu.edu
- **Dr. Anil Karn**
 Associate Professor,
 School of Mathematical Sciences,
 National Institute of Science Education & Research, India
 Email: anilkarn@niser.ac.in