

Qi Han

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Academic Appointments

- Texas A&M University-San Antonio, San Antonio, TX, USA
 - Associate Professor September 2021 - Present
 - Assistant Professor July 2016 - August 2021
- Worcester Polytechnic Institute, Worcester, MA, USA
 - Post-Doctoral Scholar/Visiting Assistant Professor August 2013 - June 2016
- University of Houston, Houston, TX, USA
 - Lecturer/Research Associate September 2012 - July 2013
 - Research/Teaching Assistant January 2008 - August 2012
- Shandong University, Jinan, Shandong, China
 - Instructor/Lecturer January - February 2006 & September - December 2007

Education

- Ph.D. in Mathematics, University of Houston, Houston, TX, USA August 2012
Advisor: Giles Auchmuty
Thesis Title: Exterior regularized harmonic and harmonic functions.
- Ph.D. in Mathematics, Shandong University, Jinan, Shandong, China June 2008
Advisors: Peichu Hu and Hongxun Yi
Thesis Title: On Nevanlinna's four-value theorem and related uniqueness problems.
- B.S. in Mathematics, University of Jinan, Jinan, Shandong, China June 2003
Project Title: On conformal mapping of a class of meromorphic functions on Riemannian surface using Christoffel-Schwarz formula. (In Chinese)

Publications

(Mathematical research lists authors [alphabetically](#); please also refer to the American Mathematical Society [statement](#))

- **In Preparation/Submitted/Accepted/In Press**

1. (Qi Han) A sharp form of Nevanlinna's second fundamental theorem of several complex variables.
2. (Qi Han) On Fermat Diophantine functional and partial differential equations in C^n .

- **Published**

• 2022

1. (Qi Han) Compact Sobolev-Slobodeckij embeddings and positive solutions to fractional Laplacian equations. *Advances in Nonlinear Analysis*, 11 (2022), 432-453.
<https://www.degruyter.com/document/doi/10.1515/anona-2020-0133/html>
2. (Wei Chen and Qi Han) On entire solutions to eikonal-type partial differential equations. *Journal of Mathematical Analysis and Applications*, 506 (2022), Article 124704.
<https://www.sciencedirect.com/science/article/pii/S0022247X20308672>
3. (Qiong Wang, Qi Han, and Wei Chen) On generalized Fermat Diophantine functional and partial differential equations in C^2 . *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, 116 (2022), Article 96.
<https://link.springer.com/article/10.1007/s13398-021-01186-1>

• 2021

1. (Qi Han and Jingbo Liu) Algebraic differential independence regarding the Riemann ζ -function and the Euler Γ -function. *Journal of Number Theory*, 221 (2021), 109-121.
<https://www.sciencedirect.com/science/article/pii/S0022314X20300147>
2. (Qi Han and Qiong Wang) Value distributions of ζ and Γ , plus some related problems. *Bollettino dell'Unione Matematica Italiana (Series IX)*, 14 (2021), 285-296.
<https://link.springer.com/article/10.1007/s40574-020-00255-4>

• 2020

1. (Qi Han) **First Part:** Compact Sobolev embeddings and positive solutions to a quasilinear equation with mixed nonlinearities. *Journal of Mathematical Analysis and Applications*, 481 (2020), Article 123150.
<https://www.sciencedirect.com/science/article/pii/S0022247X19303750>
Second Part: Elliptic variational problems with mixed nonlinearities. *Mathematical Methods in the Applied Sciences*, 43 (2020), 1675-1684.
<https://onlinelibrary.wiley.com/doi/10.1002/mma.5993>
2. (Qi Han and Jingbo Liu) On differential independence of ζ and Γ . *Annales Polonici Mathematici*, 124 (2020), 151-159.
<https://www.impan.pl/en/publishing-house/journals-and-series/annaes-polonici-mathematici/all/124/2/113414/on-differential-independence-of-boldsymbol-zeta-and-boldsymbol-vargamma>

• 2019

1. (Wei Chen, Qi Han, and Jingbo Liu) On Fermat Diophantine functional equations, little Picard theorem and beyond. *Aequationes Mathematicae*, 93 (2019), 425-432.
<https://link.springer.com/article/10.1007/s00010-018-0614-z>
2. (Qiong Wang, Qi Han, and Peichu Hu) Quantitative properties of meromorphic solutions to some differential-difference equations. *Bulletin of the Australian Mathematical Society*, 99 (2019), 250-261.
<https://www.cambridge.org/core/journals/bulletin-of-the-australian-mathematical-society/article/quantitative-properties-of-meromorphic-solutions-to-some-differential-difference-equations/F022A28D11C2107BDDF831F39678FED1>

• 2018

1. (Wei Chen and Qi Han) A non-integrated hypersurface defect relation for meromorphic maps over complete Kähler manifolds into projective algebraic varieties. *Kodai Mathematical Journal*, 41 (2018), 284-300.
<https://projecteuclid.org/euclid.kmj/1530496842>
Please read and compare: (Do Duc Thai and Si Duc Quang) Non-integrated defect of meromorphic maps on Kähler manifolds. *Mathematische Zeitschrift*, 292 (2019), 211-229.
<https://link.springer.com/article/10.1007/s00209-018-2179-x>

• 2017

1. (Qi Han) Compact embedding results of Sobolev spaces and existence of positive solutions to quasilinear equations. *Bulletin des Sciences Mathématiques (et Astronomiques)*, 141 (2017), 46-71.
<https://www.sciencedirect.com/science/article/pii/S0007449715000913>
2. (Qi Han) Some uniqueness results related to L -functions.
Bollettino dell'Unione Matematica Italiana (Series IX), 10 (2017), 503-515.
<https://link.springer.com/article/10.1007/s40574-016-0081-1>
Please read and compare: (Weichuan Lin and Katsuya Ishizaki) A “3IM+1CM” result for periodic meromorphic functions. *Journal of Mathematical Analysis and Applications*, 466 (2018), 726-732.
<https://www.sciencedirect.com/science/article/pii/S0022247X18305018>
3. (Wei Chen, Qi Han, and Jingjing Qu) On Cartan's theorem for linear operators.
Mathematische Nachrichten, 290 (2017), 2560-2566.
<https://onlinelibrary.wiley.com/doi/10.1002/mana.201500279>

• 2016

1. (Qi Han) Compact embedding results of Sobolev spaces and positive solutions to an elliptic equation.
Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 146 (2016), 693-721.
<https://www.cambridge.org/core/journals/proceedings-of-the-royal-society-of-edinburgh-section-a-mathematics/article/compact-embedding-results-of-sobolev-spaces-and-positive-solutions-to-an-elliptic-equation/D00C14123561CE4B67455C8E9B7EB385>
2. (Qi Han) On the first exterior p -harmonic Steklov eigenvalue.
Journal of Mathematical Analysis and Applications, 434 (2016), 1182-1193.
<https://www.sciencedirect.com/science/article/pii/S0022247X15009075>
3. (Feng Lü, Qi Han, and Weiran Lü) On unicity of meromorphic solutions to difference equations of Malmquist type.
Bulletin of the Australian Mathematical Society, 93 (2016), 92-98.
<https://www.cambridge.org/core/journals/bulletin-of-the-australian-mathematical-society/article/on-unicity-of-meromorphic-solutions-to-difference-equations-of-malmquist-type/866DA022F9F7AD7361D4D10876B72C73>

• 2015

1. (Qi Han) Positive solutions of elliptic problems involving both critical Sobolev nonlinearities on exterior regions.
Monatshefte für Mathematik (und Physik), 176 (2015), 107-141; addendum, 177 (2015), 325-327.
<https://link.springer.com/article/10.1007/s00605-014-0655-x>
<https://link.springer.com/article/10.1007/s00605-015-0759-y>
2. (Qi Han) A hypersurface defect relation for a family of meromorphic maps on a generalized p -parabolic manifold.
Colloquium Mathematicum, 139 (2015), 95-110.
<https://www.impan.pl/en/publishing-house/journals-and-series/colloquium-mathematicum/all/139/1/87552/a-hypersurface-defect-relation-for-a-family-of-meromorphic-maps-on-a-generalized-p-parabolic-manifold>
3. (Qi Han) Infinitely many positive harmonic functions with an oscillating boundary condition on exterior regions.
Complex Variables and Elliptic Equations, 60 (2015), 1106-1113.
<https://www.tandfonline.com/doi/10.1080/17476933.2014.1000885?journalCode=gcov20>

• 2014

1. (Giles Auchmuty and Qi Han) Representations of solutions of Laplacian boundary value problems on exterior regions.
Applied Mathematics and Optimization, 69 (2014), 21-45.
<https://link.springer.com/article/10.1007/s00245-013-9215-3>
2. (Giles Auchmuty and Qi Han) p -Laplacian boundary value problems on exterior regions.
Journal of Mathematical Analysis and Applications, 417 (2014), 260-271.
<https://www.sciencedirect.com/science/article/pii/S0022247X14002601>

• 2013

1. (Qi Han) A defect relation for meromorphic maps on generalized p -parabolic manifolds intersecting hypersurfaces in complex projective algebraic varieties.
Proceedings of the Edinburgh Mathematical Society (Series II), 56 (2013), 551-574.
<https://www.cambridge.org/core/journals/proceedings-of-the-edinburgh-mathematical-society/article/defect-relation-for-meromorphic-maps-on-generalized-p-parabolic-manifolds-intersecting-hypersurfaces-in-complex-projective-algebraic-varieties/FC888E2BD6F1CFF3D29675A28BBDCD1B>
2. (Giles Auchmuty and Qi Han) Spectral representations of solutions of linear elliptic equations on exterior regions.
Journal of Mathematical Analysis and Applications, 398 (2013), 1-10.
<https://www.sciencedirect.com/science/article/pii/S0022247X12005860>

• 2005 - 2010 (Selected)

1. (Qi Han) On complex analytic solutions of the partial differential equation $(u_{z_1})^m + (u_{z_2})^m = u^m$.
Houston Journal of Mathematics, 35 (2009), 277-289.
<https://www.math.uh.edu/~hjm/v31-v35.html>
Please read and compare: (Feng Liu and Zhen Li) Meromorphic solutions of Fermat type partial differential equations. *Journal of Mathematical Analysis and Applications*, 478 (2019), 864-873.
<https://www.sciencedirect.com/science/article/pii/S0022247X19304664>
2. (Xiaotian Bai and Qi Han) On a result of H. Fujimoto.
Kyoto Journal of Mathematics, 49 (2009), 631-643.
<https://projecteuclid.org/euclid.kjm/1260975043>
3. (Qi Han and Hongxun Yi) Some further results on meromorphic functions that share two sets.
Annales Polonici Mathematici, 93 (2008), 17-31.
<https://www.impan.pl/en/publishing-house/journals-and-series/annales-polonici-mathematici/all/93/1/85351/some-further-results-on-meromorphic-functions-that-share-two-sets>
4. (Qi Han and Hongxun Yi) On the uniqueness problems of entire functions and their linear differential polynomials.
Kodai Mathematical Journal, 30 (2007), 61-73.
<https://projecteuclid.org/euclid.kmj/1175287622>
5. (Qi Han and Peichu Hu) Unicity of meromorphic functions related to their derivatives.
Bulletin of the Belgian Mathematical Society - Simon Stevin, 14 (2007), 905-918.
<https://projecteuclid.org/euclid.bbms/1197908902>
6. (Qi Han, Seiki Mori, and Kazuya Tohge) On results of H. Ueda and G. Brosch concerning the unicity of meromorphic functions. *Journal of Mathematical Analysis and Applications*, 335 (2007), 915-934.
<https://www.sciencedirect.com/science/article/pii/S0022247X0700176X>
7. (Qi Han and Hongxun Yi) On meromorphic functions that share three values of finite weights.
Journal of Mathematical Analysis and Applications, 334 (2007), 314-332.
<https://www.sciencedirect.com/science/article/pii/S0022247X06014272>
8. (Qi Han) Meromorphic functions sharing three weighted values.
Journal of Mathematical Analysis and Applications, 311 (2005), 92-102.
<https://www.sciencedirect.com/science/article/pii/S0022247X05000533>

Professional Activities

• International/National Conference Presentations (Selected)

- Exterior finite energy harmonic functions. (Invited)
The 5th Annual Meeting of the SIAM Texas-Louisiana Section, Special Session on Recent Advances of Scientific Computing and Applications, University of Houston, Houston, TX, USA, November 4-6, 2022.
<https://www.math.uh.edu/siamtxla22/resources/booklet.pdf>

- *Complex analytic solutions to eikonal-type equations.* (Invited)
 Joint Mathematics Meetings, American Mathematical Society (AMS) Special Session on Partial Differential Equations and Complex Variables (online), USA, April 6-9, 2022.
https://www.jointmathematicsmeetings.org/meetings/national/jmm2022/2268_program_ss108.html#title
- *On entire solutions to eikonal-type equations.*
 American Mathematical Society (AMS), Special Session on Complex Analysis and Potential Theory (online), University of New Mexico, Albuquerque, NM, USA, October 23-24, 2021.
http://www.ams.org/meetings/sectional/2283_program_ss12.html#title
- *On differential independence of ζ and Γ .*
 Texas Differential Equations Conference, University of Texas, Austin, TX, USA, March 7-8, 2020.
<https://www.math.txstate.edu/research-conferences/hosted-conferences/txde/2020.html>
- *On differential independence of ζ and Γ .*
 Joint Mathematics Meetings, American Mathematical Society (AMS) Contributed Paper Session on Real and Complex Analysis, Colorado Convention Center, Denver, CO, USA, January 15-18, 2020.
https://www.jointmathematicsmeetings.org/meetings/national/jmm2020/2245_progfull.html
- *Compact embedding results of general fractional Sobolev spaces on R^n .*
 Texas Differential Equations Conference, Texas A&M University-Corpus Christi, Corpus Christi, TX, USA, March 30-31, 2019.
<https://www.math.txstate.edu/research-conferences/hosted-conferences/txde/2019.html>
- *Positive ground states for nonlinear static Schrödinger equations that have potentials vanishing at infinity.*
 Joint Mathematics Meetings, American Mathematical Society (AMS) Special Session on Mathematical Analysis and Nonlinear Partial Differential Equations, San Diego Convention Center, San Diego, CA, USA, January 10-13, 2018.
https://www.jointmathematicsmeetings.org/meetings/national/jmm2018/2197_program_ss33.html#title
- *How to identify the Euler-gamma function and the Riemann-zeta function?*
 Joint Mathematics Meetings, Mathematical Association of America (MAA) Special Session on Revitalizing Complex Analysis, San Diego Convention Center, San Diego, CA, USA, January 10-13, 2018.
https://www.jointmathematicsmeetings.org/meetings/national/jmm2018/2197_progfull.html
- *A non-integrated hypersurface defect relation for meromorphic maps over complete Kähler manifolds into projective algebraic varieties.* (Invited)
 The 25th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, University of Hong Kong, Hong Kong, China, June 26-30, 2017.
http://hkumath.hku.hk/~ntw/2017_06_conf/
- *On the first exterior p -harmonic Steklov eigenvalue.*
 Texas Differential Equations Conference, Texas A&M University, College Station, TX, USA, March 4-5, 2017.
<https://www.math.txstate.edu/research-conferences/hosted-conferences/txde/2017.html>
- *When does the Elastic Torsion Problem $-\Delta u + \mu(x)u = 1$ have a solution in R^N ?*
 Joint Mathematics Meetings, American Mathematical Society (AMS) Contributed Paper Session on Partial Differential Equations, Washington State Convention Center, Seattle, WA, USA, January 6-9, 2016.
https://www.jointmathematicsmeetings.org/meetings/national/jmm2016/2181_progfull.html
- *Compact embedding results of Sobolev spaces and positive solutions to an elliptic equation in R^N .*
 American Mathematical Society (AMS), Special Session on Nonlinear PDEs and Variational Methods, University of Nevada, Las Vegas, NV, USA, April 18-19, 2015.
http://www.ams.org/meetings/sectional/2218_program_ss5.html#title
- *Finite energy function spaces on exterior regions.*
 American Mathematical Society (AMS), Special Session on Partial Differential Equations, Iowa State University, Ames, IA, USA, April 26-28, 2013.
http://www.ams.org/meetings/sectional/2195_program_ss12.html#title
- *Harmonic and modified harmonic functions on exterior regions.*
 Texas Differential Equations Conference, Texas A&M University, College Station, TX, USA, March 3-4, 2012.
<https://www.math.txstate.edu/research-conferences/hosted-conferences/txde/2012.html>

- *On the recent development of partial differential equations with the application of Nevanlinna theory.*
The 15th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, Osaka City University, Osaka, Osaka Prefecture, Japan, July 30 - August 3, 2007.
<http://15fi.cajpn.org/index.html>

- **Mathematical Reviews of MathSciNet by the American Mathematical Society (AMS) (Selected)**

- [MR4359534] ([Dinh Tuan Huynh and Song-Yan Xie](#))
On the Weyl-Ahlfors theory of derived curves.
Mathematische Zeitschrift, 300 (2022), 475-491.
- [MR4246780] ([Marcel Filoche, Svitlana Mayboroda, and Terence Tao](#))
The effective potential of an M -matrix.
Journal of Mathematical Physics, 62 (2021), Paper No. 041902.
- [MR3995095] ([Todd Kapitula, Ross Parker, and Björn Sandstede](#))
A reformulated Krein matrix for star-even polynomial operators with applications.
SIAM Journal on Mathematical Analysis, 52 (2020), 4705-4750.
- [MR4121386] ([Tirthankar Bhattacharyya, Anindya Biswas, and Vikramjeet Singh Chandel](#))
On the Nevanlinna problem: characterization of all Schur-Agler class solutions affiliated with a given kernel.
Studia Mathematica, 255 (2020), 83-107.
- [MR3995095] ([Douglas N. Arnold, Guy David, Marcel Filoche, David Jerison, and Svitlana Mayboroda](#))
Localization of eigenfunctions via an effective potential.
Communications in Partial Differential Equations, 44 (2019), 1186-1216.
- [MR3839832] ([James K. Langley](#))
Linear differential polynomials in zero-free meromorphic functions.
Annales Academiæ Scientiarum Fennicæ. Mathematica, 43 (2018), 693-735.
- [MR3800851] ([Blair Davey and Jiuyi Zhu](#))
Quantitative uniqueness of solutions to second order elliptic equations with singular potentials in two dimensions.
Calculus of Variations and Partial Differential Equations, 57 (2018), Art. 92.
- [MR3806720] ([Si Duc Quang](#))
Second main theorem for meromorphic mappings with moving hypersurfaces in subgeneral position.
Journal of Mathematical Analysis and Applications, 465 (2018), 604-623.
- [MR3829609] ([Jia-Ming Liou and Chih-Chung Liu](#))
An algebraic construction of a solution to the mean field equations on hyperelliptic curves and its adiabatic limit.
Proceedings of the American Mathematical Society, 146 (2018), 3693-3707.
- [MR3829609] ([Fernando de Ávila Silva, Todor Gramchev, and Alexandre Kirilov](#))
Global hypoellipticity for first-order operators on closed smooth manifolds.
Journal d'Analyse Mathématique, 135 (2018), 527-573.
- [MR3605970] ([Laurent Dietrich](#))
Velocity enhancement of reaction-diffusion fronts by a line of fast diffusion.
Transactions of the American Mathematical Society, 369 (2017), 3221-3252.
- [MR3664525] ([Malcolm Brown, Vu Hoang, Michael Plum, Maria Radosz, and Ian Geoffrey Wood](#))
Gap localization of TE-modes by arbitrarily weak defects.
Journal of the London Mathematical Society Series II, 95 (2017), 942-962.
- [MR3608301] ([Yasunori Maekawa and Hideyuki Miura](#))
On domain of Poisson operators and factorization for divergence form elliptic operators.
Manuscripta Mathematica, 152 (2017), 459-512.
- [MR3659638] ([Tristan C. Collins, Sebastien Picard, and Xuan Wu](#))
Concavity of the Lagrangian phase operator and applications.
Calculus of Variations and Partial Differential Equations, 56 (2017), Art. 89.

- [MR3500831] ([Yannick Privat, Emmanuel Trélat, and Enrique Zuazua](#))
Optimal observability of the multi-dimensional wave and Schrödinger equations in quantum ergodic domains.
Journal of the European Mathematical Society (JEMS), 18 (2016), 1043-1111.
- [MR3336687] ([Serge Lukasiewicz](#))
Holomorphic extension of fundamental solutions of elliptic linear partial differential operators of higher order with analytic coefficients.
Bulletin des Sciences Mathématiques (et Astronomiques), 139 (2015), 337-356.
- [MR3342177] ([Kiril R. Datchev, Daniel D. Kang, and Andre P. Kessler](#))
Non-trapping surfaces of revolution with long-living resonances.
Mathematical Research Letters, 22 (2015), 23-42.
- [MR3357584] ([Chinh H. Lu](#))
A variational approach to complex Hessian equations in \mathbb{C}^n .
Journal of Mathematical Analysis and Applications, 431 (2015), 228-259.
- [MR3372470] ([Michael Taylor](#))
Poisson equations, uniformization, and geometrical optics.
Analysis, complex geometry, and mathematical physics: in honor of Duong H. Phong, 241-260.
Contemporary Mathematics, 644, American Mathematical Society (AMS), Providence, RI, 2015.
- [MR3200351] ([David Dos Santos Ferreira, Carlos E. Kenig, and Mikko Salo](#))
On L^p resolvent estimates for Laplace-Beltrami operators on compact manifolds.
Forum Mathematicum, 26 (2014), 815-849.
- [MR3189517] ([Nobushige Toda](#))
On the number of exceptional points of holomorphic curves and the defect relation for holomorphic curves.
Kodai Mathematical Journal, 37 (2014), 120-156.
- [MR3092733] ([Colin Guillarmou, Andrew Hassell, and Adam Sikora](#))
Restriction and spectral multiplier theorems on asymptotically conic manifolds.
Analysis and Partial Differential Equations, 6 (2013), 893-950.
- [MR3050306] ([Jussi Behrndt and Matthias Langer](#))
Elliptic operators, Dirichlet-to-Neumann maps and quasi boundary triples.
Operator methods for boundary value problems, 121-160.
Lecture Note Series, 404, London Mathematical Society (LMS), Cambridge University Press, Cambridge, 2012.

- **Invited Application Reviewer**

Postdoctoral Researcher International Mobility Experience (PRIME), German Academic Exchange Service (DAAD), and Marie Curie Program of the European Commission and the German Federal Ministry of Education and Research (BMBF). December 2019 - January 2020.

- **Lecture Series**

The Elastic Torsion Problem $-\Delta u + \mu(x)u = 1$ in R^N .

Texas A&M University-San Antonio 10-Year Anniversary Faculty Lecture Series (the mathematics speaker).

- **Visiting Experience (Selected)**

- Partial Differential Equations Conference “Midwest PDE Seminar at Baylor.”
Baylor University, Waco, TX, USA, April 2022.
- The 25th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications.
University of Hong Kong, Hong Kong, China, June 2017.
- The 6th Symposium on Analysis and Partial Differential Equations.
Purdue University, West Lafayette, IN, USA, June 2015.

- Topics in Control Theory by the Institute for Mathematics and Its Applications (IMA). University of Minnesota, Twin Cities, Minneapolis, MN, USA, May - June 2014.
- Thematic Program on Arithmetic Geometry, Hyperbolic Geometry and Related Topic by the Fields Institute. University of Toronto, Toronto, ON, Canada, November 2008.
- The 15th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications. Osaka University, Osaka, Osaka Prefecture, Japan, July - August 2007.
- Kanazawa University, Kanazawa, Ishikawa Prefecture, Japan, March 2007. (Host: Kazuya Tohge)
- Yamagata University, Yamagata, Yamagata Prefecture, Japan, August 2006 - August 2007. (Host: Seiki Mori)

- **Fellowships/Grants (Selected)**

- Texas A&M University-San Antonio, Research Council Grant: Sobolev function spaces on unbounded domains having unbounded, coarse boundaries. January 2019 - December 2020. \$4,688.
- Texas A&M University-San Antonio, Strategic Planning Initiative Proposal: High School Applied Science Modeling Contest (2nd Co-PI). January - December 2018. \$9,900.
- Texas A&M University-San Antonio, College of Arts & Sciences Summer Research Fellowships. June - August 2017, 2018, 2019, 2020, 2021. 4*\$3,000+\$5,000=\$17,000.
- Purdue University, and Institute for Mathematics and Its Applications (IMA). (Visitor) June 2015. \$1,200.
- Institute for Mathematics and Its Applications (IMA), University of Minnesota, Twin Cities. (Visitor) May - June 2014. \$2,000.
- National Science Foundation. (Summer Research Associate) June - August 2012, 2013. 2*\$3,700=\$7,400.
- National Science Foundation and Canadian National Science Foundation, Fields Institute for Research in Mathematical Sciences, University of Toronto, Canada. (Visitor) November 2008. \$2,400.
- Japanese National Science Foundation. (Presenting at Kyushu University, Japan) December 2006. \$800.
- Chinese National Science Foundation. (Visiting Yamagata University, Japan) August 2006 - August 2007. \$6,000.

- **Invited Journal Referee (Selected)**

- Acta Mathematica Scientia (English Series) • Advances in Nonlinear Analysis • Analysis Mathematica
- Analysis and Mathematical Physics • Bollettino dell'Unione Matematica Italiana
- Canadian Journal of Mathematics • Communications in Nonlinear Science and Numerical Simulation
- Comptes Rendus Mathématique • Computational Methods and Function Theory
- International Journal of Bifurcation and Chaos • International Journal of Mathematics
- Journal of Geometric Analysis • Mathematische Nachrichten • Nonlinear Analysis: Real World Applications
- Open Mathematics • Opuscula Mathematica • Proceedings of the Edinburgh Mathematical Society
- Publicacions Matemàtiques • Rocky Mountain Journal of Mathematics
- Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas • Scientific Report

Experience of Hosting Visiting Scholars

- Dr. Ming Lu, Associate Professor and Department Chair of Mathematics, Hebei Normal University, Shijiazhuang, Hebei, P.R. China, August 2019 - January 2020 through J1 visa sponsored by Texas A&M University-San Antonio. The visit of Dr. Ming Lu was planned until August 2020 for an entire academic year; he left in the Chinese Spring Festival season seeking family's reunion but could not return the USA due to the COVID travel ban.
- Dr. Xiaoliang Cheng, Ph.D. candidate, Capital Normal University, Beijing, P.R. China, September - November 2011 through B1 visa. Dr. Xiaoliang Cheng received his Ph.D. of Mathematics in 2012, and currently works as the Dean of College of Sciences and Professor of Mathematics at Jilin Normal University, Siping, Jilin, P.R. China.

Mentorship on Student Research

- *A mathematical proof of photons as the fundamental particle of gravity and mass.* (Collaboration with a student)
Student Collaborator: Helena Schwartz (An alchemist/physicist at MITRE); paused due to medical condition.
- *On the uniqueness of a family of meromorphic functions via symmetric polynomials.* (Working title)
Student: Barbi Braaten; in progress (seeking an interested qualified undergraduate mentee).
Projected outcome: An undergraduate student research paper titled as above.
- *The mathematics of the doughnut.*
Student: Frederick Bernet III; completed.
Outcome: Poster presentation at the 14th Annual Pathways Student Research Symposium, Tarleton State University, Stephenville, TX, USA, November 2-3, 2017.

Courses Taught

- **Texas A&M University-San Antonio, San Antonio, TX, USA**

- **2022 - 2023**

1. MATH 3415: Calculus III. Section 001 (6 students).
Overall rating of teaching by student course evaluations 4.40/Max5.00 Fall 2022
2. MATH 4321: Real Variables. Section 001 (13 students).
Overall rating of teaching by student course evaluations 3.83/Max5.00 Fall 2022
3. MATH 4350: Probability. Section 001 (6 students).
Overall rating of teaching by student course evaluations 4.17/Max5.00 Fall 2022

- **2021 - 2022**

1. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (12 students).
Overall rating of teaching by student course evaluations 4.25/Max5.00 Summer 2022
2. MATH 4340: Modern Algebra. Section 001 (3 students).
The official student course evaluation was not conducted, issue **not** on my end.
Overall rating of teaching by student course evaluations **not** available Summer 2022
3. MATH 2313: Calculus I. Section 001 (17 students).
Overall rating of teaching by student course evaluations 4.33/Max5.00 Spring 2022
4. MATH 2313: Calculus I. Section 002 (20 students).
Overall rating of teaching by student course evaluations 4.38/Max5.00 Spring 2022
5. MATH 3325: Introduction to Mathematical Proofs. Section 001 (15 students).
Overall rating of teaching by student course evaluations 4.15/Max5.00 Spring 2022
6. MATH 4390: Advanced Topics in Mathematics (Complex Analysis). Section 001 (1 student).
The student (Jose Luis Nunez) withdrew towards the end of the semester.
Overall rating of teaching by student course evaluations **not** available Spring 2022
7. MATH 1314 College Algebra Co-Requisite Model. Section 04L (33 students).
Overall rating of teaching by student course evaluations 4.29/Max5.00 Fall 2021
8. MATH 4321: Real Variables. Section 001 (16 students).
Overall rating of teaching by student course evaluations 3.29/Max5.00 Fall 2021

- **2020 - 2021**

1. MATH 3325: Introduction to Mathematical Proofs. Section 001 (12 students).
Overall rating of teaching by student course evaluations 4.82/Max5.00 Summer 2021

2. MATH 2113: Calculus I Lab & MATH 2313: Calculus I (online). Section 600 (23 students).
Overall rating of teaching by student course evaluations 4.26/Max5.00 Spring 2021
3. MATH 2113: Calculus I Lab & MATH 2313: Calculus I (online). Section 601 (18 students).
Overall rating of teaching by student course evaluations 4.29/Max5.00 Spring 2021
4. MATH 4390: Advanced Topics in Mathematics (Complex Analysis). Section 001 (3 students).
Overall rating of teaching by student course evaluations 5.00/Max5.00 Spring 2021
5. MATH 1014 College Algebra Recitation & MATH 1314: College Algebra (online). Section 020 (15 students).
Overall rating of teaching by student course evaluations 3.58/Max5.00 Fall 2020
6. MATH 2113: Calculus I Lab & MATH 2313: Calculus I (online). Section 602 (19 students).
Overall rating of teaching by student course evaluations 4.13/Max5.00 Fall 2020
7. MATH 4321: Real Variables (online). Section 600 (10 students).
Overall rating of teaching by student course evaluations 3.80/Max5.00 Fall 2020

● 2019 - 2020

1. MATH 2113: Calculus I Lab & MATH 2313: Calculus I (online). Section 600 (19 students).
Overall rating of teaching by student course evaluations 4.36/Max5.00 Summer 2020
2. MATH 1314: College Algebra. Section 001 (24 students).
Official student course evaluation **not** conducted due to COVID Spring 2020
3. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (24 students).
Official student course evaluation **not** conducted due to COVID Spring 2020
4. MATH 3370: Discrete Mathematics. Section 001 (15 students).
Official student course evaluation **not** conducted due to COVID Spring 2020
5. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (24 students).
Overall rating of teaching by student course evaluations 4.22/Max5.00 Fall 2019
6. MATH 3325: Introduction to Mathematical Proofs. Section 001 (19 students).
Overall rating of teaching by student course evaluations 2.50/Max5.00 Fall 2019
7. MATH 4321: Real Variables. Section 001 (15 students).
Overall rating of teaching by student course evaluations 4.33/Max5.00 Fall 2019

● 2018 - 2019

1. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (8 students).
Overall rating of teaching by student course evaluations 4.25/Max5.00 Summer 2019
2. MATH 1314: College Algebra. Section 002 (23 students).
Overall rating of teaching by student course evaluations 4.48/Max5.00 Spring 2019
3. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (20 students).
Overall rating of teaching by student course evaluations 3.67/Max5.00 Spring 2019
4. MATH 3370: Discrete Mathematics. Section 001 (14 students).
Overall rating of teaching by student course evaluations 4.62/Max5.00 Spring 2019
5. MATH 2113: Calculus I Lab & MATH 2313: Calculus I. Section 001 (21 students).
Overall rating of teaching by student course evaluations 4.21/Max5.00 Fall 2018
6. MATH 2114: Calculus II Lab & MATH 2314: Calculus II. Section 001 (19 students).
Overall rating of teaching by student course evaluations 4.56/Max5.00 Fall 2018

● 2017 - 2018

1. MATH 2312: Pre-Calculus. Section 001 (8 students).
Overall rating of teaching by student course evaluations 4.25/Max5.00 Summer 2018

2. MATH 1314: College Algebra. Section 005 (16 students).
Overall rating of teaching by student course evaluations 4.38/Max5.00 Spring 2018
3. MATH 1325: College Mathematics II (Business Calculus). Section 001 (20 students).
Overall rating of teaching by student course evaluations 4.45/Max5.00 Spring 2018
4. MATH 1342: Introductory Statistics. Section 001 (17 students).
Overall rating of teaching by student course evaluations 4.00/Max5.00 Spring 2018
5. MATH 2312: Pre-Calculus. Section 002 (19 students).
Overall rating of teaching by student course evaluations 4.37/Max5.00 Spring 2018
6. MATH 1314: College Algebra. Section 007 (21 students).
Overall rating of teaching by student course evaluations 4.62/Max5.00 Fall 2017
7. MATH 2312: Pre-Calculus. Section 002 (15 students).
Overall rating of teaching by student course evaluations 4.27/Max5.00 Fall 2017
8. MATH 4350: Probability. Section 001 (3 students).
Overall rating of teaching by student course evaluations 4.67/Max5.00 Fall 2017

• **2016 - 2017**

1. MATH 1314: College Algebra. Section 002 (23 students).
Overall rating of teaching by student course evaluations 4.74/Max5.00 Summer 2017
2. MATH 1314: College Algebra. Section 004 (25 students).
Overall rating of teaching by student course evaluations 4.63/Max5.00 Spring 2017
3. MATH 1324: College Mathematics I (Business Algebra). Section 800 (24 students).
Overall rating of teaching by student course evaluations 3.81/Max5.00 Spring 2017
4. MATH 2312: Pre-Calculus. Section 003 (23 students).
Overall rating of teaching by student course evaluations 4.00/Max5.00 Spring 2017
5. MATH 2114: Calculus II Lab & MATH 2314: Calculus II. Section 001 (9 students).
Overall rating of teaching by student course evaluations 4.00/Max5.00 Spring 2017
6. MATH 3370: Discrete Mathematics. Section 001 (11 students).
Overall rating of teaching by student course evaluations 3.82/Max5.00 Spring 2017
7. MATH 1314: College Algebra. Section 003 (27 students).
Overall rating of teaching by student course evaluations 4.19/Max5.00 Fall 2016
8. MATH 1314: College Algebra. Section 004 (21 students).
Overall rating of teaching by student course evaluations 4.35/Max5.00 Fall 2016
9. MATH 2312: Pre-Calculus. Section 002 (19 students).
Overall rating of teaching by student course evaluations 3.94/Max5.00 Fall 2016
10. MATH 3415: Calculus III. Section 001 (6 students).
Overall rating of teaching by student course evaluations 4.33/Max5.00 Fall 2016

The "**Number/Max5.00**" represents the average rating v.s. the full (highest possible) rating of students' teaching evaluations for the classes I have taught at **Texas A&M University-San Antonio**. This rating corresponds to "The overall rating of the teaching of this course," and "**5.00**" is the highest possible rating score that means "Strongly Agree."

• **Worcester Polytechnic Institute, Worcester, MA, USA**

• **2015 - 2016**

1. MA1023: Series, Approximations, Polar Coordinates and Vectors. Section C08 (27 students).
Overall rating of teaching by student course evaluations 4.3/Max5.0 Term C

2. MA1022: Integral Calculus. Section B07A (28 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term B
3. MA1022: Integral Calculus. Section B09A (26 students).
Overall rating of teaching by student course evaluations 4.5/Max5.0 Term B
4. MA1022: Integral Calculus. Section A01 (36 students).
Overall rating of teaching by student course evaluations 4.8/Max5.0 Term A
5. MA2071: Matrices and Linear Algebra I. Section A01 (33 students).
Overall rating of teaching by student course evaluations 4.1/Max5.0 Term A
6. MA2071: Matrices and Linear Algebra I. Section A02 (25 students).
Overall rating of teaching by student course evaluations 3.9/Max5.0 Term A
7. MA2071: Matrices and Linear Algebra I. Section A03 (35 students).
Overall rating of teaching by student course evaluations 4.1/Max5.0 Term A

• 2014 - 2015

1. MA2051: Ordinary Differential Equations (online). Section E201 and E296 (16 students).
Overall rating of teaching by student course evaluations 4.7/Max5.0 Summer E2
2. MA3475: Calculus of Variations. Section C01 (14 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term C
3. MA1024: Multivariable Calculus. Section B05A (36 students).
Overall rating of teaching by student course evaluations 4.8/Max5.0 Term B
4. MA1024: Multivariable Calculus. Section B06A (36 students).
Overall rating of teaching by student course evaluations 4.8/Max5.0 Term B
5. MA1024: Multivariable Calculus. Section B09A (36 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term B
6. MA1024: Multivariable Calculus. Section B10A (38 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term B
7. MA1023: Series, Approximations, Polar Coordinates and Vectors. Section A03A (40 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term A
8. MA1023: Series, Approximations, Polar Coordinates and Vectors. Section A04A (34 students).
Overall rating of teaching by student course evaluations 4.4/Max5.0 Term A
9. MA1023: Series, Approximations, Polar Coordinates and Vectors. Section A09A (36 students).
Overall rating of teaching by student course evaluations 4.7/Max5.0 Term A
10. MA1023: Series, Approximations, Polar Coordinates and Vectors. Section A10A (35 students).
Overall rating of teaching by student course evaluations 4.5/Max5.0 Term A

• 2013 - 2014

1. MA1023: Series, Approximations, Polar Coordinates and Vectors (online). Section E201 and E296 (8 students).
Overall rating of teaching by student course evaluations 4.5/Max5.0 Summer E2
2. MA1021: Differential Calculus. Section C01 (22 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term C
3. MA1021: Differential Calculus. Section B01 (29 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term B
4. MA1022: Integral Calculus. Section B03A (20 students).
Overall rating of teaching by student course evaluations 4.6/Max5.0 Term B
5. MA1022: Integral Calculus. Section A01 (35 students).
Overall rating of teaching by student course evaluations 3.0/Max5.0 Term A

6. MA1022: Integral Calculus. Section A03 (32 students).

Overall rating of teaching by student course evaluations 2.9/Max5.0

Term A

The "**Number/Max5.0**" represents the average rating v.s. the full (highest possible) rating of students' teaching evaluations for the classes I have taught at **Worcester Polytechnic Institute (WPI)**. This rating corresponds to "The overall rating of the instructor's teaching," and "**5.0**" is the highest possible rating score that means "Excellent."

- **University of Houston, Houston, TX, USA**

1. MATH 3339: Statistics for the Sciences. Section 34475 (46 students).

Overall rating of teaching by student course evaluations 2.6/Max1.0

Spring 2013

2. MATH 1313: Finite Mathematics (data missing due to hard drive failure).

Fall 2011

The "**Number/Max1.0**" represents the average rating v.s. the full (highest possible) rating of students' teaching evaluations for the classes I have taught at **University of Houston**. This rating corresponds to "The overall teaching effectiveness of this instructor," and "**1.0**" is the highest possible rating score that means "Outstanding."

- **Shandong University, Jinan, Shandong, China**

1. Introduction to the Geometry of Manifolds (graduate students).

Fall 2007

2. Theory of Functions (part-time master's degree program course).

Winter Break 2006 - 2007

Courses Developed

- **Texas A&M University-San Antonio, San Antonio, TX, USA**

1. MATH 3321: Applied Partial Differential Equations (with Dr. Kun Gou)

2. MATH 3326: History of Mathematics (with Dr. Elizabeth Leyva and Dr. Jingbo Liu; EI designated course)

3. MATH 3372: Mathematical Biology (with Dr. Ummugul Bulut and Dr. Kun Gou)

4. MATH 4325: Topology

5. MATH 4375: Applied Complex Analysis

Professional Services/Developments (Selected)

- Co-organizer with Dr. Hyun-Kyoung Kwon and Dr. Bingyuan Liu, American Mathematical Society (AMS) Special Session on Partial Differential Equations and Complex Variables, Joint Mathematics Meetings, Boston Convention Center, Boston, MA, USA, January 6-7, 2023.
- Co-organizer with Dr. Jing Tian, American Mathematical Society (AMS) Special Session on Recent Advances in Nonlinear Partial Differential Equations and the Applications, Joint Mathematics Meetings, Boston Convention Center, Boston, MA, USA, January 4-5, 2023.
- Judge, 2022 Jay SEA Academic Research Symposium, John Jay High School, San Antonio, TX, USA, December 3, 2021.
- Member, College Tenure Evaluation Committee of the Public Health Program (cluster hire) for Dr. Rector Arya, Dr. Ravindranath Duggirala, Dr. Donna M. Lehman, and Dr. Srinivas Mummidi, Texas A&M University-San Antonio, San Antonio, TX, USA, November 2022.
- Member, College Tenure Evaluation Committee of Associate Professor for Dr. Daniel Braaten (spouse hire), Texas A&M University-San Antonio, San Antonio, TX, USA, November 2022.
- Member, College Pre-Tenure Evaluation Committee of Assistant Professor for Dr. Pride Abongwa, Texas A&M University-San Antonio, San Antonio, TX, USA, October 2022.

- Member/Note Keeper, Department Promotion Evaluation Committee of Professional Assistant Professor for Dr. George Shelton, Texas A&M University-San Antonio, San Antonio, TX, USA, October 2022.
- Co-organizer (with Professor Goong Chen and Professor Jay Walton), AuchmutyFest (1-day Research Symposium in Honor of the Retirement of Professor Giles Auchmuty at University of Houston), Department of Mathematics, Texas A&M University, College Station, TX, USA, October 2, 2022.
- Co-organizer (with Professor Goong Chen and Professor Jianxin Zhou), Texas Differential Equations Conference 2022, Department of Mathematics, Texas A&M University, College Station, TX, USA, October 1, 2022.
- Member, the Joint Admission Medical Program (JAMP) A&M-SA Chapter Faculty Director Selection Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, June 2022.
- Member, College Tenure Evaluation Committee of Professor for Dr. Mohamed Abdelrahman, Texas A&M University-San Antonio, San Antonio, TX, USA, May 2022.
- Primary Organizer and PI, College of Arts and Sciences Invited Speaker Series for Dr. Ye Zhang from University of California Los Angeles, Texas A&M University-San Antonio, San Antonio, TX, USA, April 26, 2022.
- Judge, The 17th Texas A&M University System Pathways Student Research Symposium, Texas A&M University, College Station, TX, USA, March 3-4, 2022.
- Faculty Learner, Association of College and University Educators (ACUE) course on Inclusive Teaching for Equitable Learning (online), Texas A&M University System, TX, USA, Spring 2022.
- Judge, Science and Engineering Fair, John Jay High School, San Antonio, TX, USA, December 4, 2021.
- Chair, Committee for Evolving Goals and Procedures for MPES Peer Evaluation of Teaching, Texas A&M University-San Antonio, San Antonio, TX, USA, October 2021 - December 2022.
- Participant, Reducing Student Resistance to Active Learning Project (online), University of Oregon, Eugene, OR, USA, September 2021 - January 2022.
- Faculty Learner, Association of College and University Educators (ACUE) course on Effective Teaching Practices (online), Texas A&M University System, TX, USA, Fall 2021 and Spring 2022.
- Member, University Resources Commission, Texas A&M University-San Antonio, San Antonio, TX, USA, September 2021 - Present.
- Member (two cycles), College Promotion and Tenure Evaluation Committee of Assistant Professors, Texas A&M University-San Antonio, San Antonio, TX, USA, September - October 2021, 2022.
- Co-organizer (with Dr. Ilija Jegdic), Mini-symposium (MS16): Recent Advances in Nonlinear Wave Propagation and Interaction, The 44th SIAM Southeastern Atlantic Section (Annual) Conference, Auburn University (online; Auburn, AL, USA), September 18-19, 2021.
- Participant, Focused Online Collaborative Interactions (FOCI) Series 7: Strengthening Conceptual Understanding in Introductory Statistics, Charles A. Dana Center (online; University of Texas, Austin, TX, USA), June - July 2021.
- Member, MATH 1314: College Algebra Planning Team, Texas A&M University-San Antonio, San Antonio, TX, USA, May - August 2021.
- Co-organizer (with Dr. Kun Gou), The 5th Coastal Bend Mathematics and Statistics Conference (CBMSC), Texas A&M University-San Antonio (online; San Antonio, TX, USA), April 10-11, 2021.
- Participant, Inquiry-based Learning and Teaching in Mathematics Workshop, Oklahoma State University (online; Stillwater, OK, USA), January 4-6, 2021.
- Member, Department Faculty Annual Performance Evaluation Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, January 2021 - Present.
- Judge, Science and Engineering Fair, John Jay High School (online; San Antonio, TX, USA), December 5, 2020.
- Donor/Volunteer, A&M-SA Adopt-a-family Program, Texas A&M University-San Antonio, San Antonio, TX, USA, December 2020.

- Member, College Core Curriculum Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, October 2020 - August 2021.
- Member, University Study Abroad Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, September 2020 - December 2020.
- Coordinator (Interim), Mathematics Program, Texas A&M University-San Antonio, San Antonio, TX, USA, September 2020 - February 2021.
- Faculty Mentor, University Faculty Advising Program, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2020 - May 2021.
- Participant, Active Learning Workshop, Florida International University (online; Miami, FL, USA), July 10&17, 2020.
- Member, Texas Differential Equations Conference Organizing Committee, TX, USA, June 2020 - Present.
- Co-organizer (with Dr. Kun Gou), The 5th Coastal Bend Mathematics and Statistics Conference (CBMSC), Texas A&M University-San Antonio, San Antonio, TX, USA, April 11-12, 2020. (Cancelled due to COVID)
- Judge, Mathematical Association of America (MAA) Undergraduate Student Poster Session (Applied Mathematics and Modelling), Joint Mathematics Meetings, Colorado Convention Center, Denver, CO, USA, January 17, 2020.
- Member, Hiring Committee for Associate Professor and Program Coordinator of Mathematics, Texas A&M University-San Antonio, San Antonio, TX, USA, December 2019 - August 2020.
- Invited Reviewer, Postdoctoral Researchers International Mobility Experience (PRIME), German Academic Exchange Service (DAAD), and Marie Curie Program of the European Commission and the German Federal Ministry of Education and Research (BMBF), December 2019 - January 2020.
- Judge, Science and Engineering Fair, John Jay High School, San Antonio, TX, USA, December 7, 2019.
- Participant, Texas Corequisite Project Conference: Data-Driven, Equity-Focused Corequisites, Henry B. Gonzalez Convention Center, San Antonio, TX, USA, November 5-6, 2019.
- Chair, Mathematics Program Textbooks Selection Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, November 2019 - April 2020.
- Faculty Consultant, Aggies Cyber Invent, Texas A&M University-San Antonio, San Antonio, TX, USA, October 26, 2019.
- Member, A&M-SA QEP Quantitative Reasoning Advisory Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, June 2019 - Present.
- Participant, Active Learning Workshop, University of Texas, Austin, TX, USA, May 31, 2019.
- Member, Coastal Bend Mathematics and Statistics Conference Scientific Committee, TX, USA, May 2019 - Present.
- Member, Electronic Systems Engineering Technology Program Proposal Review Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, February - March 2019.
- Member, A&M-SA QEP Director Hiring Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, February - August 2019.
- Member, University Curriculum Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, November 2018 - April 2019.
- Member, A&M-SA Quality Enhancement Plan (QEP) Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, October 2018 - March 2019.
- Co-organizer (with Dr. Kun Gou and Dr. John Romo), A&M-SA High School Applied Science Modeling Contest, Texas A&M University-San Antonio, San Antonio, TX, USA, September - November 2018.
- Mentor for Lecturer of Geology, Dr. Pride Abongwa, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2018 - May 2019.
- Mentor (with Dr. Hoan Duong) for Instructor of Mathematics, Dr. Sayantan Das, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2018 - May 2019.

- Member, Mathematics Tutor Center Hiring Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, July 2018.
- Participant, National IBLT Conference 2018: Inquiry-based Learning and Teaching in Mathematics, University of Texas, Austin, TX, USA, May 31 - June 2, 2018.
- Coordinator, MATH 1314: College Algebra and MATH 1014: College Algebra Recitation, Texas A&M University-San Antonio, San Antonio, TX, USA, April 2018 - December 2019.
- Member, Hiring Committee for Lecturer of Mathematics, Texas A&M University-San Antonio, San Antonio, TX, USA, April - May 2018.
- Member, Mathematics Program Textbook Update Selection Committee for MATH 1342: Introductory Statistics, Texas A&M University-San Antonio, San Antonio, TX, USA, March - April 2018.
- Chair, Mathematics Program Textbook Update Selection Committee for MATH 2312: Pre-Calculus, Texas A&M University-San Antonio, San Antonio, TX, USA, March - April 2018.
- Judge, Texas Science and Engineering Fair, Henry B. Gonzalez Convention Center, San Antonio, TX, USA, March 23, 2018.
- Judge, Mathematical Association of America (MAA) Undergraduate Student Poster Session (Analysis), Joint Mathematics Meetings, San Diego Convention Center, San Diego, CA, USA, January 11, 2018.
- Member, Health Profession Advising Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2017 - Present. (Also, member of Summer Research Review, Mock Interview, and Letter of Recommendation Subcommittees.)
- Member (two cycles), College Curriculum Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, October - November 2017, 2018.
- Member, Hiring Committee for Lecturer of Mathematics, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2017.
- Judge, Texas Science and Engineering Fair, Henry B. Gonzalez Convention Center, San Antonio, TX, USA, April 1, 2017.
- Judge, Science Fair, The Atonement Academy, San Antonio, TX, USA, January 28, 2017.
- Coordinator, MATH 1014: College Algebra Recitation, Texas A&M University-San Antonio, San Antonio, TX, USA, January - May, 2017.
- Member, Hiring Committee for Assistant Professor of Mathematics, Texas A&M University-San Antonio, San Antonio, TX, USA, December 2016 - March 2017.
- Judge, Science and Engineering Fair, John Jay High School, San Antonio, TX, USA, December 3, 2016.
- Member, Food Insecurity Committee, Texas A&M University-San Antonio, San Antonio, TX, USA, August 2016 - May 2017.
- Judge, Mathematical Association of America (MAA) Undergraduate Student Poster Session (Analysis), Joint Mathematics Meetings, Washington State Convention Center, Seattle, WA, USA, January 8, 2016.
- Faulty Advisor/Mentor, 2015 William Lowell Putnam Mathematical Competition: Worcester Polytechnic Institute (WPI) Team, Worcester, MA, USA, September - December 2015.
- Contributor/Reviewer, American Mathematical Society (AMS) MathSciNet Mathematical Reviews (online; Ann Arbor, MI, USA), October 2013 - Present.
- Organizer, Analysis and PDE Seminar, Department of Mathematical Sciences, Worcester Polytechnic Institute, Worcester, MA, USA, August 2013 - May 2015.
- Organizer, Complex Analysis and Nevalinna Theory Seminar, Department of Mathematics, Shandong University, Jinan, Shandong, P.R. China, September 2005 - June 2006.

Membership

- American Mathematical Society
- Mathematical Association of America
- Society for Industrial and Applied Mathematics