# **Guangliang Chen**

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# **RESEARCH INTEREST**

Machine learning (clustering, classification, and dictionary learning), high dimensional data visualization and modeling, image processing, and documents analysis

# **EDUCATION**

7/2009	Ph.D. in Applied Math
	University of Minnesota, Minneapolis, MN
	Adviser: Gilad Lerman
	• Thesis: Spectral Curvature Clustering for Hybrid Linear Modeling
	Minor: Statistics
7/2003	<b>B.S. in Mathematics</b>
	University of Science & Technology of China (USTC), Hefei

# **POSITIONS HELD**

8/2020-	Associate Professor of Statistics
	Department of Mathematics & Statistics, San Jose State University (SJSU), San Jose, CA
8/2014-	Assistant Professor of Statistics
8/2020	Department of Mathematics & Statistics, San Jose State University (SJSU), San Jose CA
7/2013-	Visiting Assistant Professor of Mathematics
6/2014	Claremont McKenna College, Claremont, CA
	Mentor: Deanna Needell
8/2009-	Visiting Assistant Professor
7/2013	Mathematics Department, Duke University, Durham, NC
	Mentor: Mauro Maggioni
8/2003-	Graduate Assistant
5/2009	School of Mathematics, University of Minnesota, Minneapolis

# **GRANTS & AWARDS**

2020-2026	University Faculty RSCA Assigned Time Award, SJSU
2019,Fall	Travel fund (\$4,313), National Center for Theoretical Sciences (NCTS), National Science
	Council (NSC), Taiwan
2019,Fall	PI (co-PI: Yan Zhang). CAMCOS Grant (\$27,791), Intuit Inc.
2019,July	Woodward Grant (summer salary \$6,000). Department of Mathematics and Statistics,
	SJSU

2018,Fall	College of Science RSCA Award (course release), SJSU
2018,Fall	SJSU Undergraduate Research Grant (student expenses \$1,000)
2018,July	SJSU Central RSCA Grant (faculty-led student research \$7,400)
2018,June	<i>Woodward Grant</i> (summer salary \$6,000). Department of Mathematics and Statistics, SJSU
2018,June	Just-in-Time Fund (student travel \$1,178), College of Science, SJSU
2018,Spring	SJSU Award of Excellence as Distinguished Faculty Mentor
2018,Spring	Co-PI (with Slobodan Simic). CAMCOS Grant (\$32,940), Verizon Wireless
2017,Fall	College of Science RSCA Award (course release), SJSU
2017,Summer	<i>Woodward Grant</i> (faculty-led student research, \$6,000). Department of Mathematics and Statistics, SJSU
2017,Spring	Co-PI (PI: Slobodan Simic). CAMCOS Grant (\$31,935), Verizon Wireless
2017,Spring	Central RSCA Award (course release), SJSU
2016-2019	Participant (PI: Sen Chiao of Meteorology Department). Proposal title: MRI Acquisition
	of Hybrid CPU/GPU High-Performance Computing and Storage for STEM Research and Education at San Jose State University. National Science Foundation (\$900K)
2016,Summer	<i>Woodward Grant</i> (faculty-led student research, \$6,000). Department of Mathematics and Statistics, SJSU
2016.Spring	SJSU Award of Excellence as Distinguished Faculty Mentor
2015,Fall	Woodward Grant (student travel \$838). Department of Mathematics and Statistics, SJSU
2015,Fall	Co-PI (with Martina Bremer and Slobodan Simic). Woodward Grant (CAMCOS).
	Department of Mathematics and Statistics, SJSU
2015,August	ICIAM15 Travel Award (\$2,000). Society for Industrial and Applied Mathematics (SIAM)
2015,Summer	Woodward Grant (individual research, \$6,000). Department of Mathematics and
	Statistics, SJSU
2015-2020	PI. Collaboration Grant for Mathematicians (\$35,000), Simons Foundation
2009	Best Paper Award. ICCV Workshop on Dynamical Vision, 12th IEEE International
	Conference on Computer Vision (ICCV), Kyoto, Japan
2008	SIAM Student Travel Award. Society for Industrial and Applied Mathematics

# PUBLICATIONS

### Journal Articles

2019	G. Chen. "A General Framework for Scalable Spectral Clustering Based on Document
	Models". Pattern Recognition Letters, 125: 488-493. DOI: 10.1016/j.patrec.2019.06.010
2016	Y. Wang, G. Chen, and M. Maggioni. "High Dimensional Data Modeling Techniques for
	Detection of Chemical Plumes and Anomalies in Hyperspectral Images and Movies".
	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing,
	9(9): 4316-4324. DOI: 10.1109/JSTARS.2016.2539968
2014	G. Chen, A. Divekar, and D. Needell. "Guaranteed Sparse Signal Recovery with Highly
	Coherent Sensing Matrices". SampTA Special Issue of Sampling Theory in Signal and
	Image Processing, 13(1): 91-109
2012	W.K. Allard, G. Chen and M. Maggioni. "Multiscale Geometric Methods for Data Sets II:
	Geometric Multi-Resolution Analysis". Applied and Computational Harmonic Analysis
	(ACHA), 32(3): 435-462. Available online in September 2011. (Journal's second hottest
	article in 2011 full year)

2011	E. Arias-Castro, G. Chen, G. Lerman. "Spectral Clustering based on Local Linear
	Approximations". Electronic Journal of Statistics, 5: 1537-1587
2009	G. Chen and G. Lerman. "Spectral Curvature Clustering (SCC)". International Journal of
	Computer Vision, 81: 317-330
2009	G. Chen and G. Lerman. "Foundations of a Multi-way Spectral Clustering Framework for
	Hybrid Linear Modeling". Foundations of Computational Mathematics, 9: 517-558
2006	G. Lerman, J. McQuown, A. Blais, B. Dynlacht, G. Chen and B. Mishra. "Functional
	Genomics via Multiscale Analysis: Application to Gene Expression and ChIP-on-chip
	Data". <i>Bioinformatics</i> , 23(3): 314 -320

# **Conference Proceedings**

2018	G. Chen. "MATLAB Implementation Details of a Scalable Spectral Clustering Algorithm
	Paragnition (PPDP 2018) Deligna China D. Varautrat at al. (Edg.): DDDD 2018 I.NCS
	11455 np 04 07
2018	G Chen "A Scalable Spectral Clustering Algorithm based on Landmark Embedding and
2010	Cosine Similarity" IAPR Joint International Workshops on Statistical Techniques in
	Pattern Recognition (SPR 2018) and Structural and Syntactic Pattern Recognition (SSPR
	2018). Fragrant Hill, Beijing, China.
2018	G. Chen. "Scalable Spectral Clustering with Cosine Similarity". The 24th International
	Conference on Pattern Recognition (ICPR), pp. 314-319, Beijing, China.
2018	Khiem Pham and G. Chen. "Large-scale Spectral Clustering using Diffusion Coordinates
	on Landmark-based Bipartite Graphs". The 12th Workshop on Graph-based Natural
	Language Processing (TextGraphs-12), New Orleans, Louisiana
2017	G. Chen, W. Florero-Salinas, and D. Li. "Simple, Fast and Accurate Hyper-parameter
	Tuning in Gaussian-kernel SVM". International Joint Conference on Neural Networks
2016	(IJCNN), Anchorage, AK
2016	W. Florero-Salinas, D. Li, and G. Chen. "A Nearest Neighbor Approach for Efficient
	Selection of the Bandwidth Parameter in Gaussian-Kernel Support Vector Machines".
2015	Y Wang M. Maggiani and C. Chan "Enhanced Datastion of Chamical Plumos in
2013	Hyperspectral Images and Movies through Improved Background Modeling" The 74
	Workshop on Hyperspectral Image and Signal Processing: Fyolution in Remote Sensing
	(WHISPERS) University of Tokyo Janan
2015	G. Chen. "A Novel Multiscale Geometric Approach to Structured Dictionary Learning on
	High Dimensional Data". The 11th International Conference on Sampling Theory and
	Applications (SampTA), pp. 598-602, DOI: 10.1109/SAMPTA.2015.7148961
2012	G. Chen, M. Iwen, S. Chin, and M. Maggioni. "A Fast Multiscale Framework for Data in
	High Dimensions: Measure Estimation, Anomaly Detection, and Compressive
	Measurements". Visual Communications and Image Processing (VCIP), 2012 IEEE
	Pages: 1-6, DOI: 10.1109/VCIP.2012.6410789
2011	G. Chen and M. Maggioni. "Multiscale Geometric and Spectral Analysis of Plane
	Arrangements". Computer Vision and Pattern Recognition (CVPR), 2011 IEEE
	Conference on. Pages: 2825-2832, DOI: 10.1109/CVPR.2011.5995666

G. Chen and M. Maggioni. "Multiscale Geometric Dictionaries for Point-Cloud Data".
The 9th International Conference on Sampling Theory and Applications (SampTA),
Singapore
E. Monson, G. Chen, R. Brady, and M. Maggioni. "Data representation and exploration
with Geometric Wavelets". Visual Analytics Science and Technology (VAST), 2010 IEEE
Symposium on. Pages: 243-244, DOI: 10.1109/VAST.2010.5653822
G. Chen and M. Maggioni. Multiscale Geometric Wavelets for the Analysis of Point
Clouds. Information Sciences and Systems (CISS), 2010 44th Annual Conference on
Pages: 1-6, DOI: 10.1109/CISS.2010.5464843
G. Chen, S. Atev and G. Lerman. Kernel Spectral Curvature Clustering (KSCC).
Computer Vision Workshops (ICCV Workshops), 2009 IEEE 12th International
Conference on. Pages: 765-772, DOI: 10.1109/ICCVW.2009.5457627. Best Paper Award
G. Chen and G. Lerman. Motion Segmentation for Hopkins 155 Database via SCC.
Computer Vision Workshops (ICCV Workshops), IEEE 12th International Conference on.
Pages: 759-764, DOI: 10.1109/ICCVW.2009.5457626

# **Book Chapters**

2020	G. Chen. "Efficient, Geometrically-adaptive Techniques for Multiscale Gaussian-kernel
	SVM Classification". Book Title: Advanced Studies in Classification and Data Science.
	Editors: Tadashi Imaizumi, Akinori Okada, Sadaaki Miyamoto, Fumitake Sakaori,
	Yoshiro Yamamoto and Maurizio Vichi. Publisher: Springer, Japan. To appear.
2016	G. Chen and D. Needell. "Compressed Sensing and Dictionary Learning". Finite Frame
	Theory: A Complete Introduction to Overcompleteness, in Proceedings of Symposia in
	Applied Mathematics, vol. 73, pp. 201-241. Kasso A. Okoudjou (editor). Amer. Math.
	Soc., Providence, RI
2012	G. Chen, A.V. Little, and M. Maggioni. "Multi-Resolution Geometric Analysis for Data
	in High Dimensions". Excursions in Harmonic Analysis, Volume 1. Applied and
	Numerical Harmonic Analysis, Travis D. Andrews et al. (eds.), Springer, New York
2011	G. Chen, A.V. Little, M. Maggioni and L. Rosasco. "Some Recent Advances in the
	Geometric Analysis of Point Clouds in High Dimensions". Wavelets and Multiscale
	Analysis: Theory and Applications, pp. 199-225. Applied and Numerical Harmonic
	Analysis, Jonathan Cohen and Ahmed I. Zayed (eds.), Springer

### Technical Reports

2020	Yuwen Luo, Eduardo Gonzalez, Athulya Ganapathi Kandy, Jung-a Kim, Jonathan
	Schwartz, Kevin Tsai, Mengqi Yin (faculty supervisor: Guangliang Chen). "Finite Rank
	Deep Kernel Learning", CAMCOS Report, Department of Mathematics & Statistics, San
	Jose State University
2018	Jeffrey Lee, Scott Li, Jiye Ding, Maham Niaz, Khiem Pham, Xin Xu, Zhengxia Yi, and
	Xin Zhang (faculty supervisor: Guangliang Chen). "Large-Scale Spectral Clustering
	Methods for Image and Text Data", CAMCOS Report, Department of Mathematics &
	Statistics, San Jose State University
2017	Joey Fitch, Fengmei Liu, Shiou-Shiou Deng, Sonia Kong, Nate Kotila, Rachel Li, Ryan
	Quigley, and Andrew Zastovnik (faculty supervisor: Guangliang Chen). "Adaptive
	Spectral Clustering for High-Dimensional Sparse Count Data", CAMCOS Report,
	Department of Mathematics & Statistics, San Jose State University
	Quigley, and Andrew Zastovnik (faculty supervisor: Guangliang Chen). "Adaptive Spectral Clustering for High-Dimensional Sparse Count Data", <i>CAMCOS Report</i> , Department of Mathematics & Statistics, San Jose State University

Wilson Florero-Salinas, Sha Li, Xiaoyan Chong, Dan Li, Minglu Ma, Abhirupa Sen,
Carson Sprock, and Yue Wang (faculty supervisor: Guangliang Chen). "On
Classification: An Empirical Study of Existing Algorithms Based on Two Kaggle
Competitions", CAMCOS Report, Department of Mathematics & Statistics, San Jose
State University
G. Chen, G. Lerman and R. Chartrand. "Multiscale Analysis for Muon-Scattering Data". <i>Technical Report LA-UR 06-7504</i> , Los Alamos National Laboratory, Los Alamos, NM

# PRESENTATIONS

### Talks

12/20/2019	<i>The 11th ICSA International Conference</i> (Theme: Innovation with Statistics and Data Science), Hangzhou, China. Sponsor: International Chinese Statistical Association (ICSA)
10/11/2019	The 3rd International Conference on Statistical Distributions and Applications (Session on Big Data and Dimension Reduction), Grand Rapids, MI
06/22/2019	Classification Society Annual Meeting, Edmonton, Alberta, Canada.
03/20/2019	San Francisco Bay Area Chapter of American Statistical Association Monthly Seminar, San Jose, CA
10/27/2018	AMS Fall Western Sectional Meeting (Special Session on Big Data and Statistical Analytics), San Francisco State University, San Francisco, CA
08/19/2018	The 2nd Workshop on Reproducible Research in Pattern Recognition (RRPR), Beijing, China
08/17/2018	IAPR Joint International Workshops on Statistical Techniques in Pattern Recognition and Structural and Syntactic Pattern Recognition (S+SSPR), Fragrant Hill, Beijing, China
06/19/2018	<i>INFORMS International Meeting</i> (General Session on Optimization Modeling and Data Analytics). Taipei, Taiwan
06/06/2018	The 12th Workshop on Graph-Based Natural Language Processing (TextGraphs), New Orleans, LA
05/17/2018	<i>The 7th International Conference on Computational Harmonic Analysis</i> , Vanderbilt University, Nashville, TN
02/15/2018	Statistics Seminar, Department of Statistics, University of California, Davis
12/14/2017	Bay Area Scientific Computing Day (BASCD), Lawrence Berkeley National Laboratory, Berkeley, CA
08/10/2017	Conference of the International Federation of Classification Societies (IFCS), Tokai University, Tokyo, Japan
05/15/2017	International Joint Conference on Neural Networks (IJCNN), Anchorage, AK
10/05/2016	Math & Stat Colloquium. University of San Francisco.
07/11/2016	SIAM Annual Meeting (AN16), CP5: Machine Learning and Data Science, Boston, MA
06/04/2016	Southern California Applied Mathematics Symposium (SOCAMS). Claremont Graduate University, Claremont, CA
06/03/2016	Classification Society Annual Meeting, University of Missouri, Columbia
10/25/2015	Special Session on Stochastic Modeling and Statistical Inference, AMS Fall 2015 Western Sectional Meeting, California State University, Fullerton

08/26/2015	Math/Stat Colloquium. Department of Mathematics & Statistics, San Jose State
00/14/2015	University, CA
08/14/2015	ICIAM Mini-symposium: Geometric Understanding of Data in 3D and Higher, the 8th International Congress on Industrial and Applied Mathematics (ICIAM), Beijing, China
07/02/2015	Applied Math Seminar, National Sun Yat-sen University, Kaohsiung, Taiwan
06/03/2015	The 7th IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS). Tokyo, Japan
05/29/2015	The 11th International Conference on Sampling Theory and Applications (SampTA).
	American University, Washington, DC
12/03/2014	Math/Stats Colloquium. Department of Mathematics & Statistics, San Jose State
	University, CA
09/04/2013	Applied Math Seminar. Claremont Center for the Mathematical Sciences, Claremont, CA
12/02/2011	Graduate/Faculty Seminar. Mathematics Department, Duke University, Durham, NC
04/29/2011	3M Corporation, Maplewood, MN
11/13/2010	Keynote speaker. AAAI Fall Symposium on Manifold Learning and its Applications,
	Arlington, VA
09/28/2009	Applied Math Seminar. Department of Mathematics, Duke University
04/29/2008	Junior Colloquium. School of Mathematics, University of Minnesota
Posters	
08/21/2018	International Conference on Pattern Recognition (ICPR), Beijing, China
02/05/2018	<i>New Deep Learning Techniques Workshop</i> , Institute for Pure and Applied Mathematics (IPAM), University of California, LA
02/08/2017	SAMSI Workshop on the Interface of Statistics and Optimization (WISO), Duke
	University, Durham, NC
06/23/2016	Workshop on Algorithms for Modern Massive Data Sets (MMDS 2016). University of
	California, Berkeley
05/06/2016	Pacific Conference on Statistical Computing and Data Mining, Palm Springs, CA
09/26/2011	High Dimensional Phenomena Workshop. Institute for Mathematics & its Applications,
	University of Minnesota, Minneapolis
06/21/2011	IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Colorado
	Springs, CO

02/17/2011 *February Fourier Talks*, University of Maryland, College Park

# **TEACHING EXPERIENCE**

	San Jose State University, San Jose, CA
Fall 2020	Math 251: Statistical and Machine Learning Classification
	Math 261A: Regression Theory and Methods
Summer 2020	Math 161A: Applied Probability and Statistics I (Session 1)
	Math 161A: Applied Probability and Statistics I (Session 2)
Spring 2020	Math 250: Mathematical Methods for Data Visualization
	Math 161A: Applied Probability and Statistics I (2 sections)
	Math 298: Writing Project (1)
Fall 2019	Math 203: Applied Math, Computing and Statistics Projects
	Math 261A: Regression Theory and Methods

	Math 297A: Preparation for Writing Project (1)
Spring 2019	Math 161A: Applied Probability and Statistics I
	Math 263: Stochastic Processes
	Math 298: Writing Project (2)
Fall 2018	Math 251: Statistical and Machine Learning Classification
	Math 129A: Linear Algebra I
	Math 297A: Preparation for Writing Project (1)
Spring 2018	Math 161A: Applied Probability and Statistics I
	Math 203: Applied Math, Computing and Statistics Projects
Fall 2017	Math 163: Probability Theory (2 sections)
Spring 2017	Math 203: Applied Math, Computing and Statistics Projects
	Math 261B: Design and Analysis of Experiments
Fall 2016	Math 163: Probability Theory
	Math 298: Writing Project (2)
Spring 2016	Math 285: Classification with Handwritten Digits
	Math 298: Writing Project (1)
Fall 2015	Math 285: Selected Topics in High Dimensional Data Modeling
	Math 203: Applied Math, Computing and Statistics Projects
Spring 2015	Math 164: Mathematical Statistics
	Math 161A: Applied Probability and Statistics I
	Math 42: Discrete Math
Fall 2014	Math 163: Probability Theory (2 sections)
	Math 42: Discrete Math
Summer 2014	Math 42: Discrete Math

#### Claremont McKenna College, Claremont, CA

Spring 2014	Math 52: Introduction to Statistics, and
	Math 152: Statistical Inference
Fall 2013	Math 52: Introduction to Statistics, and
	Math 31: Calculus II (2 sections)

#### Duke University, Durham, NC

- Spring 2013Elementary Differential EquationsFall 2012Ordinary and Partial Differential Equations, and<br/>Multivariable Calculus for Econ
- Spring 2012 \*Linear Algebra with Applications (\*Course Coordinator)
- Fall 2011Multivariable Calculus for Econ
- Spring 2011 Ordinary and Partial Differential Equations
- Fall 2010Intermediate Calculus

#### University of Minnesota, Minneapolis, MN

Spring 2006	Recitation Instructor for <i>Calculus I</i> (2 sections)
Fall 2005	Recitation Instructor for Short Calculus (2 sections)
Spring 2005	Recitation Instructor for College Algebra & Probability (3 sections)
Fall 2004	Recitation Instructor for Calculus I (2 sections)

# **Supervision of Master's Projects**

San Jose State University, San Jose, CA		
Spring 2017	Dan Li (MS Statistics)	
Fall 2017	Xiaohong Liu (MS Statistics),	
	Yi Xiao (MS Statistics)	
Spring 2019	Chia-Chin Wu (MS Statistics),	
	Thu Huong Vu (MS Statistics)	
Fall 2019	Jarrett Jimeno (MS Applied Math),	
	Felix Mbuga (MS Statistics, co-advised with Tortora)	

# **PROFESSIONAL DEVELOPMENT**

### Teaching

2020 2019 2016 2015	SJSU Teach Online Summer Certificate Program SJSU Summer Course Redesign Institute CSU Teaching and Learning Symposium, SJSU, October 21-22 Workshop on Strategies for Addressing (and Avoiding) Classroom Management Issues, Center for Faculty Development, SJSU
2014	<ul> <li>Joint Mathematical Meetings, Baltimore, MD, January 15-18, 2014</li> <li>MAA Minicourse #4: <i>Teaching introductory statistics</i></li> <li>MAA Minicourse #8: <i>Directing undergraduate research</i></li> </ul>
Research	
2018	<i>Workshop on New Deep Learning Techniques</i> , Institute for Pure and Applied Mathematics (IPAM), University of California, LA, February 5-9
2016	<i>New Directions Short Course: Mathematical Optimization</i> , Institute for Mathematics & its Applications (IMA), University of Minnesota, Minneapolis, August 1-12
2010	<i>Graduate Summer School on Image Processing</i> , IAS/Park City Mathematical Institute (PCMI), Park City, Utah, June 27-July 17
2006	Summer Graduate Workshop: Mathematical aspects of computational biology, Mathematical Science Research Institute (MSRI), University of Berkeley, June 19-30
2005	Graduate Summer School: Intelligent Extraction of Information from Graphs and High Dimensional Data, Institute for Pure and Applied Mathematics (IPAM), University of California, LA, July 11-29

# **PROFESSIONAL SERVICES**

### Chapter Officer

2020-2021	co-Director of Continuing Education and Student Affairs, San Francisco Bay Area
	Chapter of the American Statistical Association.
2019-2020	Director of Continuing Education and Student Affairs, San Francisco Bay Area
	Chapter of the American Statistical Association.

### **Conference** Chair

- 05/17/2018 Session Chair, International Conference on Computational Harmonic Analysis (ICCHA), Vanderbilt University, Nashville, TN
- 08/10/2017 **Contributed Session Chair**. Conference of the International Federation of Classification Societies (IFCS). Tokai University, Tokyo, Japan
- 06/05/2015 **Poster Session Chair**. The 7th IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS). University of Tokyo, Japan

#### Lecturer

2019	<b>Declined an invitation to lecture</b> for the Summer Course on Mathematical Signal Processing and Data Analysis Institute of Mathematics, Academia Sinica, Taipoi Taipon
07/2018	Lecturer for the Summer Course on Mathematical Signal Processing and Data Analysis,
	Institute of Mathematics, Academia Sinica, Taipei, Taiwan
08/2017	Lecturer for the Summer Course on Mathematical Signal Processing and Data Analysis,
	Institute of Mathematics, Academia Sinica, Taipei, Taiwan
07/16/2015	Guest Lecturer for the Summer Course on Mathematical Signal Processing and Data
	Analysis, Institute of Mathematics, Academia Sinica, Taipei, Taiwan
01/2015	Lecturer for AMS Short Course on Finite Frame Theory: A Complete Introduction to
	Overcompleteness, San Antonio, TX
07/2012	Lecturer for Summer School on Geometry and Data, Washington State University,
	Pullman
06/2010	<b>Consultant</b> for IMA Special Program: Interdisciplinary Research Experience for
	Undergrad (REU), Institute for Mathematics and its Applications (IMA), University of
	Minnesota, Minneapolis

### Editorial Position

8/2016 - Review Editor in Mathematics of Computation and Data Science for *Frontiers in Applied Mathematics and Statistics*.

#### **Proposal Referee**

National Science Foundation (NSF) Panelist Air Force Office of Scientific Research (AFOSR)

### Journal Referee

Computing and Informatics Entropy Frontiers of Information Technology & Electronic Engineering IEEE Access IEEE Journal of Selected Topics in Signal Processing IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing IEEE Signal Processing Letters IEEE Signal Processing Magazine IEEE Transactions on Circuits and Systems for Video Technology IEEE Transactions on Medical Imaging IEEE Transactions on Neural Networks and Learning Systems IEEE Transactions on Signal Processing International Journal of Pattern Recognition and Artificial Intelligence PLOS ONE SIAM Journal on Imaging Sciences

### **Conference** Referee

2017 International Conference of Sampling Theory & Applications (SampTA), Tallinn, Estonia

### **Community Outreach**

Fall 2018	Mentored a Monta Vista High School student to conduct a comparative study of different
	dimensionality reduction methods for high dimensional data
07/2017	Mentored 1 Gavilan College student doing research through a grant by Elaine Collins
07/2016	Mentored 2 Gavilan College students doing research through a grant by Elaine Collins
04/23/2016	Delivered a lecture titled Classification with Handwritten Digits in an event – Classes
	without Quizzes – organized by SJSU Alumni Association

# **University Service**

San Jose Stat	te University, San Jose, CA
	University-level Committees
2017-2019	MS Data Analytics Curriculum Committee
2016-2019	Graduate Studies & Research (GS&R) Committee
	College-level Service
2020-present	Graduate Advisor for MS Data Science (joint degree between Math and CS)
	Department-level Committees
2016-present	Advisor for B.S. Applied Math - Concentration in Statistics
2020-2021	MS Data Science (Chair), Advising, Graduate Curriculum, M.S. Statistics, Probability & Statistics, Woodward
2019-2020	Ad hoc Data Science, Advising, Graduate Curriculum, M.S. Statistics, Probability & Statistics (Chair)
2018-2019	Ad hoc Data Science (Chair), Advising, Graduate Curriculum (Chair), M.S. Statistics, Probability & Statistics
2017-2018	Ad hoc Data Science (Chair), Advising, Graduate Curriculum, M.S. Statistics, Probability & Statistics
2016-2017	Actuarial Science Recruitment, Ad hoc Actuarial Science, Advising, Probability & Statistics
2015-2016	Prohability & Statistics (Chair) Statistics Recruitment
2013 2010	Emerging Technologies (Chair), Undergraduate Curriculum (Chair), Computing
2011 2015	Resources, Probability & Statistics
	Master's Project Committees
Spring 2017	Christopher D. Rainey (MS Statistics)
Fall 2018	Ximan Huang (MS Statistics)
Spring 2019	Xin Zhang (MS Statistics), Ting Xu (MS Statistics)

Fall 2019Felix Mbuga (MS Statistics)

#### Claremont McKenna College, Claremont, CA

2013 Advisor for Zachary Siegel (Pomona College)

Duke University, Mathematics Department, Durham, NC

2012 Linear Algebra Course Committee (Coordinator)

2012 Undergraduate Honors Committee (for Adrian Chan)

# **Professional Memberships**

- 2019-2020 International Chinese Statistical Association
- 2017-2019 International Neural Network Society
- 2018 Association for Computational Linguistics
- 2017, 2019 The Classification Society
- 2016-2017 Society for Industrial and Applied Mathematics (SIAM) Activity Group: *Data Mining and Analytics*