

# Yang Chen

---

CONTACT INFORMATION	445E West Hall 1085 S. Univ. Ave. Ann Arbor, MI 48109, USA Website: <a href="https://sites.google.com/view/ychenstat/home">https://sites.google.com/view/ychenstat/home</a> Google Scholar: <a href="#">Please click here.</a> ORCID: <a href="https://orcid.org/0000-0002-9516-8134">https://orcid.org/0000-0002-9516-8134</a> Research Gate: <a href="#">Please click here.</a>	Tel: (734) 764-1175 E-mail: <a href="mailto:ychenang@umich.edu">ychenang@umich.edu</a>
EMPLOYMENT	Assistant Professor (Sept. 2017 - now) Department of Statistics & Michigan Institute for Data Science University of Michigan, Ann Arbor	
EDUCATION	Ph. D. in Statistics <b>Harvard University</b>	May. 2017
	B. Sc. in Mathematics <b>University of Science and Technology of China</b>	Jul. 2011
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Bayesian modeling and computation</li><li>• Hidden Markov models &amp; general finite mixture models</li><li>• Applied statistics in astronomy</li><li>• Applied statistics and machine learning for space sciences</li></ul>	
GRANTS	<p>07/01/2021 - 06/30/2024, NSF DMS Award 2113397, Role: PI, <i>DMS-EPSRC Collaborative Research: Advancing Statistical Foundations and Frontiers for and from Emerging Astronomical Data Challenges</i>, total award amount \$160,000.</p> <p>06/10/2021 - 06/09/2022, Michigan Institute for Data Science (MIDAS) Propelling Original Data Science (PODS) Award, Role: Co-I (PI: Runzi Wang), <i>Data Science Approach Towards a Socio-ecological Framework for the Investigation of Continental Urban Stream Water Quality Pattern</i>, total award amount: \$70,000.</p> <p>06/01/2021 - 01/31/2022, Catalyst Grant Award, Graham Sustainability Institute, University of Michigan, Role: Co-I (PI: Runzi Wang), <i>Urban water quality management towards a sustainable framework - the investigation of finescale urban form effects on stream water quality</i>, total award amount: \$10,000.</p> <p>09/01/2020 - 8/31/2023, NSF PHY 2027555, Role: Co-PI, lead on data assimilation (PI: Gabor Toth), <i>SWQU: NextGen Space Weather Modeling Framework Using Data, Physics and Uncertainty Quantification</i>, total award amount: \$2,860,000.</p> <p>12/20/2019 - 12/19/2021, NASA ROSES18 DRIVE Science Center Phase 1 Award, 80NSSC20K0600, Role: Co-PI, lead on machine learning (PI: Tamas Gombosi), <i>Solar Storms and Terrestrial Impacts Center (SOLSTICE)</i>, total award amount: \$1,200,000.</p> <p>03/25/2019 - 03/24/2020, Google Cloud Platform research credits, Role: PI, total award amount: \$6,000.</p> <p>07/15/2018 - 06/30/2021, NSF DMS Award 1811083, Role: PI, <i>Collaborative Research: Highly Principled Data Science for Multi-Domain Astronomical Measurements and Analysis</i>, total award amount: \$79,996.</p>	

07/24/2018 - 07/23/2019, Jayne Koskinas Ted Giovanis Foundation for Health and Policy, Data Science Innovation Lab: Mathematical Challenges of Single Cell Dynamics, Role: Co-PI (with Eran A. Mukamel, Chongzhi Zang, Yang Chen, Max Qian, and K. B. Choi), *Inferring lineage program regulating transcription factors for neuronal cell type identity from multi-modal single cell transcriptome and epigenome data*, total award amount: \$6,000.

9/1/2018 - 12/31/2020, MCubed, University of Michigan (internal grant), Role: PI (with Zhenke Wu & Gongjun Xu), *Personalized Diagnosis for Disease Etiology Studies and Cognitive Assessment*, total award amount: \$60,000.

## PUBLICATIONS

### 2022

1. K. Whitman et al., *Review of Solar Energetic Particle Models*, Advances in Space Research (2022), <https://www.sciencedirect.com/science/article/pii/S0273117722007244>.
2. H. Sun, Z. Hua, J. Ren, S. Zou, Y. Sun, **Y. Chen\*** (corresponding author), *Matrix completion methods for the total electron content video reconstruction*, Annals of Applied Statistics (2022), Vol. 16, No. 3, 1333-1358, <http://dx.doi.org/10.1214/21-AOAS1541>.
3. R. Trangucci, **Y. Chen**, J. Zelner, *Modeling rates of disease with missing categorical data*, <https://arxiv.org/abs/2206.08161>.
4. H. Sun, **Y. Chen**, J. Ren, S. Zou, *Complete Global Total Electron Content (TEC) Map Dataset based on a Video Imputation Algorithm - VISTA*, submitted.
5. S. Kasapis, L. Zhao, **Y. Chen**, X. Wang, M. Bobra, T. I. Gombosi, *Interpretable Machine Learning to Forecast SEP Events for Solar Cycle 23*, Space Weather, <https://www.essoar.org/doi/abs/10.1002/essoar.10507642.1>.
6. Z. Sun, M. Bobra, X. Wang, Y. Wang, H. Sun, T. Gombosi, **Y. Chen**, A. Hero, *Predicting Solar Flares using CNN and LSTM on Two Solar Cycles of Active Region Data*, The Astrophysical Journal 931.2 (2022): 163, <https://www.essoar.org/doi/10.1002/essoar.10508256.1>.
7. D. Iong, Q. Zhao, **Y. Chen**, *Latent Mixture Model for effect heterogeneity in Mendelian Randomization*, arXiv:2007.06476 (2022+), <https://arxiv.org/abs/2007.06476>.

### 2021

1. D. E. Jones, R. N. Trangucci, **Y. Chen\*** (corresponding author), *Quantifying Observed Prior Impact*, Bayesian Anal. Advance Publication 1-28 (2021), <https://doi.org/10.1214/21-BA1271>.
2. H. Sun, W. B. Manchester IV, **Y. Chen\*** (corresponding author), *Improved and Interpretable Solar Flare Predictions with Spatial & Topological Features of the Polarity-Inversion-Line Masked Magnetograms*, Space Weather 19.12 (2021): e2021SW002837, <https://doi.org/10.1002/essoar.10507540.1>.
3. Farahi, A., **Y. Chen**. *TATTER: A hypothesis testing tool for multi-dimensional data*, Astronomy and Computing 34 (2021): 100445, <https://doi.org/10.1016/j.ascom.2020.100445>.
4. H. Marshall, **Y. Chen**, J. Drake, M. Guainazzi, V. L. Kashyap, X.-L. Meng, P. Plucinsky, P. Ratzlaff, D. van Dyk, X. Wang, *Concordance: In-flight Calibration of X-ray Telescopes without Absolute References*, The Astronomical Journal (2021), <https://doi.org/10.3847/1538-3881/ac230a>.

5. W. Ma, Z. Wang, Y. Zhang, N. Magee, **Y. Chen**, C. Zang, *BARTweb: a web server for transcription factor association analysis*, NAR genomics and bioinformatics 3.2 (2021): lqab022, <https://doi.org/10.1101/2020.02.17.952838>.
6. D. Iong, **Y. Chen**, G. Toth, S. Zou, T. I. Pulkkinen, J. Ren, E. Camporeale, T. I. Gombosi, *An interpretable machine learning method for forecasting the SYM-H index*, Published Online: Mon, 27 Sep 2021, <https://doi.org/10.1002/essoar.10508063.2>.
7. S. Zou, J. Ren, Z. Wang, H. Sun, **Y. Chen**, *Impact of Storm-Enhanced Density (SED) on Ion Upflow Fluxes During Geomagnetic Storm*, Frontiers in Astronomy and Space Sciences (2021), <https://doi.org/10.3389/fspas.2021.746429>.
8. H. Sun, W. Manchester, Z. Jiao, X. Wang, **Y. Chen**, *Interpreting LSTM Prediction on Solar Flare Eruption with Time-series Clustering*, arXiv:1912.12360, <https://arxiv.org/abs/1912.12360>.

## 2020

1. Z. Jiao, H. Sun, X. Wang, W. Manchester, T. Gombosi, A. Hero, **Y. Chen\*** (corresponding author), *Solar Flare Intensity Prediction with Machine Learning Models*, Space Weather (2020), <https://doi.org/10.1029/2020SW002440>.
2. X. Wang, **Y. Chen**, G. Toth, W. B. Manchester, T. I. Gombosi, A. O. Hero, Z. Jiao, H. Sun, M. Jin, Y. Liu, *Predicting solar flares with machine learning: investigating solar cycle dependence*, The Astrophysical Journal, 2019, 895(1), 3, <https://doi.org/10.3847/1538-4357/ab89ac>.
3. R. Trangucci, D. Hansen, **Y. Chen**, Contributed Discussion on *On a Class of Objective Priors from Scoring Rules (with Discussion)*, Bayesian Analysis (2020), <https://doi.org/10.1214/19-BA1187>.
4. K. Choi, **Y. Chen**, D. A. Skelly, G. A. Churchill, *Bayesian model selection reveals biological origins of zero inflation in single-cell transcriptomics*, Genome Biology 21, 183 (2020), <https://doi.org/10.1186/s13059-020-02103-2>.
5. J. Ren, J. Lu, S. Zou, N. Giertych, **Y. Chen**, R. H. Varney, *Statistical study of ion upflow and downflow observed by the Poker Flat Incoherent Scatter Radar (PFISR)*, Journal of Geophysical Research: Space Physics 125, no. 10 (2020): e2020JA028179, <https://doi.org/10.1029/2020JA028179>.
6. A. Farahi, D. Nagai, and **Y. Chen**. *PoPE: A Population-based Approach to Model the Spatial Structure of Astronomical Systems*, The Astronomical Journal 161, no. 1 (2020): 30, <https://doi.org/10.3847/1538-3881/abc630>.
7. Q. Li, **Y. Chen**, and Y. Kim. *Compression by and for Deep Boltzmann Machines*, IEEE Transactions on Communications 68.12 (2020): 7498-7510, <https://ieeexplore.ieee.org/document/9183947>.
8. **Y. Chen**, R. Gong, M. Xie, *Geometric Conditions for the Discrepant Posterior Phenomenon and Connections to Simpson's Paradox*, arXiv:2001.08336 (2020), <https://arxiv.org/abs/2001.08336>.
9. Q. Zhao, **Y. Chen**, D. S. Small, *Analysis of the epidemic growth of the early 2019-nCoV outbreak using internationally confirmed cases*, <https://www.medrxiv.org/content/10.1101/2020.02.06.20020941v1>.

## 2019

1. **Y. Chen**, X.-L. Meng, X. Wang, D. A. van Dyk, H. L. Marshall, V. L. Kashyap, *Calibration Concordance for Astronomical Instruments via Multiplicative Shrinkage*, Journal of the American Statistical Association (2019), 114 (527), 1018-1037, <https://doi.org/10.1080/01621459.2018.1528978>.

2. F. Seeger, A. Little, **Y. Chen**, T. Woolf, H. Cheng and J. Mitchell, *Feature Design for Protein Interface Hotspots using KFC2 and Rosetta*, In Research in Data Science (2019, pp. 177-197). Springer, Cham, [https://doi.org/10.1007/978-3-030-11566-1\\_8](https://doi.org/10.1007/978-3-030-11566-1_8).
3. Q. Zhao, **Y. Chen**, J. Wang, & D. S. Small, *Powerful genome-wide design and robust statistical inference in two-sample summary-data Mendelian randomization*, International Journal of Epidemiology, Volume 48, Issue 5, October 2019, Pages 1478-1492, <https://doi.org/10.1093/ije/dyz142>.
4. **Y. Chen**, W.B. Manchester, A.O. Hero, G. Toth, B. DuFumier, T. Zhou, X. Wang, H. Zhu, Z. Sun, and T.I. Gombosi, *Identifying Solar Flare Precursors Using Time Series of SDO/HMI Images and SHARP Parameters*, Space Weather 17.10 (2019): 1404-1426, <https://doi.org/10.1029/2019SW002214>.
5. Q. Li, **Y. Chen**, *Rate Distortion Via Deep Learning*, IEEE Transactions on Communications, vol. 68, no. 1, pp. 456-465, 2020, doi: 10.1109/TCOMM.2019.2950714, <https://ieeexplore.ieee.org/document/8888220>.

#### 2016-2018

1. **Y. Chen**, K. Shen, S. Shan, S. C. Kou, *Analyzing Single-Molecule Protein Transportation Experiments via Hierarchical Hidden Markov Models*, Journal of the American Statistical Association 111.515 (2016): 951-966, <https://doi.org/10.1080/01621459.2016.1140050>.
2. H. Bavli, **Y. Chen**, *Shrinkage Estimation in the Adjudication of Civil Damage Claims*, Review of Law & Economics (2017), 13 (2), <https://doi.org/10.1515/rle-2015-0010>.
3. S. Yang, **Y. Chen**, E. Bernton, J. S. Liu, *On Parallelizable Markov Chain Monte Carlo Algorithms with Waste-recycling*. Statistics and Computing 28.5 (2018): 1073-1081, <https://doi.org/10.1007/s11222-017-9780-4>.

#### TEACHING EXPERIENCE

Department of Statistics, University of Michigan, Ann Arbor, MI

- 2020 Winter, STATS 551: Bayesian Modeling and Computation.
- 2019 Fall, STATS 451: Bayesian Models.
- 2019 Winter, STATS 451: Bayesian Models.
- 2019 Winter, STATS 551: Bayesian Modeling and Computation.
- 2018 Winter, STATS 551: Bayes Modeling and Computation.
- 2017 Fall, STATS 700: Bayes Modeling and Computation.

Department of Biostatistics, University of Michigan, Ann Arbor, MI

- 2019 Big Data Summer Institute: Bayesian Computation.
- 2018 Big Data Summer Institute: Bayesian Models.

#### PRESENTATIONS

1. *Solar Flare Forecasting with Machine Learning and Novel Statistical Models*
  - 2022 Triennial Earth-Sun Summit, Seattle, WA, August 8-11, 2022.
2. *Goodness-of-fit in Astronphysics*
  - CHASC Workshop, Cambridge, MA, August 2-4, 2022.
3. *Data Science Challenges in Space Weather*

- The Big Data Summer Institute’s Concluding Symposium, Ann Arbor, Michigan, July 28, 2022.
4. *Statistical and machine learning approaches to solar flare forecasting*
    - UDP (Universidad Diego Portales, Santiago, Chile) SEMINARIOS DATA SCIENCE YEAR, Virtual, June 29, 2022.
  5. Panelist for “Perspectives on the evolution of statistics within the data science landscape”, 11th annual ASA 2022 UP-STAT Conference in Statistics, SUNY University at Buffalo, Virtual, May 2-4, 2022.
  6. *Advancing Space Science with Data Driven Methods*
    - Space Weather Workshop 2022, “Collaboration: Advancing the Space Weather Enterprise”, Virtual, April 26-28, 2022.
  7. *Video Imputation and Prediction Methods in Space Weather*
    - Neyman Statistics Seminar, Department of Statistics, University of California, Berkeley, March 30, 2022.
    - Statistics Seminar, Department of Statistics, University of Washington, Seattle, May 20, 2022.
  8. *Statistical And Computational Problems In Space Weather Data Challenges*
    - INFORMS Annual Meeting, October 27, 2021, Virtual.
  9. *Matrix Completion Methods for the Total Electron Content Video Reconstruction*
    - Statistical Methods for the Physical Sciences (STAMPS) Webinar at the Carnegie Mellon University, Virtual, October 8, 2021.
  10. Discussant for “Statistical and Machine Learning Efforts on Solar Flare Predictions II - Topic Contributed Papers” at the Joint Statistical Meeting, Virtual, August 12, 2021.
  11. *Strange bedfellows: Statistics, Machine Learning and Space Science*, SOLSTICE (Solar Storms and Terrestrial Impacts Center) Science Seminar Series, University of Michigan, Ann Arbor, May 13, 2021.
  12. *Statistical and Computational Problems in Space Weather Data Challenges*
    - Statistics Seminar, Department of Mathematical Sciences, New Jersey Institute of Technology, April 8, 2021.
    - Seminar, Institute for Space Sciences, New Jersey Institute of Technology, February 25, 2021.
    - Seminar, Department of Statistics, Ohio State University, February 18, 2021.
  13. *Solar Flare Predictions with Machine Learning*, invited talks.
    - Special Session “Machine Learning in Space Weather”, the American Geophysical Union (AGU) Fall Meeting, virtual, December 15, 2020.
    - 4th SWMF Users Meeting, virtual, November 6, 2020.
    - Workshop on machine Learning, data Mining and data Assimilation in Geospace (LMAG2020), virtual, September 22, 2020.
    - Space Weather Applications of Machine Intelligence (SWAMI) Seminar Series, University of Colorado, Boulder, virtual, September 10, 2020.
    - SDO/STEREO ML Science Meeting, virtual, August 5, 2020.
    - Keynote speaker, Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI, February 27, 2020.

- American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 11, 2019.
  - Symposium on Big Data, Human Health, and Statistics, University of Michigan, Ann Arbor, MI, July 25, 2019.
  - 2019 ICSA China Conference, Tianjin, China, July 2, 2019.
  - 3rd International Conference on Econometrics and Statistics (EcoSta 2019), National Chung Hsing University, Taiwan, June 26, 2019.
  - ICSA 2019 Applied Statistics Symposium, Raleigh, NC, June 10, 2019.
  - 3rd SWMF (Space Weather Modeling Framework) Users Meeting, University of Michigan, Ann Arbor, MI, March 4, 2019.
14. *Calibration Concordance for Astronomical Instruments*, invited talks.
- Virtual 238th Meeting of the American Astronomical Society (AAS 238), “(Special Session) Unaccounted Uncertainties: The Role of Systematics in Astrophysics”, 7 June 2021.
  - International CHASC AstroStatistics Centre, Topics in Astrostatistics, Harvard University, September 8, 2020.
  - School of Statistics Seminar, University of Minnesota, October 24, 2019;
  - Special Session by WiSDM, AWM (Association for Women in Mathematics) Symposium, Rice University, April 6, 2019;
  - Statistics Seminar, University of Notre Dame, March 5, 2019;
  - Statistics Seminar, Duke University, February 22, 2019;
  - 2018 Big Data Summer Institute (BDSI 2018) Symposium, University of Michigan, Ann Arbor, MI, July 2018;
  - 2017 Data Science Research Forum, Michigan Institute for Data Science, University of Michigan, Ann Arbor, MI, December 2017;
  - The Joint Statistical Meetings, Chicago, IL, August 2016.
15. *Topics in Bayesian Inference: Specification of Prior Distributions*, Earth, Climate and Coffee, Climate and Space Sciences and Engineering, University of Michigan, February 15, 2019.
16. *Hidden Markov Model (HMM) Order Selection*,
- International Society for Bayesian Analysis (ISBA) World Meeting 2021, Virtual, June 28, 2021;
  - CFE-CMStatistics 2018, Pisa, Italy, December 15, 2018;
  - Computational Statistics and Molecular Simulation: A Practical Cross-Fertilization, CMO-BIRS, Oxaca, Mexico, November 12, 2018;
  - MIDAS Seminar, University of Michigan, Ann Arbor, MI, October 12, 2018;
  - Advances in Finite Mixture Models, Guilin, China, August 2018.
17. *Tutorial on Bayesian Inference and Computation*, Massive and heterogeneous data and knowledge (LaHDAK) Seminar, laboratoire de Recherche en Informatique, Universite Paris-Sud, France, December 10, 2018.
18. *Delineating Protein Transportation Processes: Hierarchical Models for Single-Molecule Data*,
- Institut Curie - Paris, France, December 3, 2018;
  - Collaborative Research Center Seminar, Georg-August-University Göttingen, Germany, November 22, 2018;

- Statistics Seminar at University of Michigan, University of California, Berkeley, Columbia University, Rutgers University, etc., January 2017;
  - The New England Statistics Symposium, University of Connecticut, Storrs, CT, April 2015.
19. *A second look at cstat*, CHASC meeting, Harvard University, Cambridge, MA, October 30, 2018.
  20. *Predictive Models for Molecular Data*, Women in Data Science and Mathematics Research Collaboration Workshop (WiSDM), ICERM, Brown University, Providence, RI, July 2017.
  21. *The Bayesian Statistics behind Calibration Concordance*, AAS 230 (230th Meeting of the American Astronomical Society): Special Session “Topics in Astro-Statistics”, Austin, TX, June 2017.
  22. *When MCMC goes online*, The Joint Statistical Meetings, Seattle, WA, August 2015.
  23. *Greedy (Griddy) Parallel MCMC Algorithms*, ResearchStats, Harvard University, Cambridge, MA, April 2015.
  24. *Discovering the Universe with Dark Energy Camera*, Olin College, Needham, MA, April 2014.
  25. *Nice Curves: Enhancing Variable Star Astronomy through Data Science*, poster, ComputeFest in School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, January 2014.

#### PROFESSIONAL SERVICES

- Committee member for the Committee on Women in Statistics (CoWiS) of the American Statistical Association (ASA), 2022-2024.
- Associate Editor for the Engineering Sciences Section, NEJSDS: The New England Journal of Statistics in Data Science, November, 2021-now.
- Guest editor, *Frontiers in Astronomy And Space Sciences*, 2022.
- Instructor and moderator for the “MIDAS Workshop on Data Science for Environmental Scientists”, University of Michigan, March & May, 2022.
- NSF Reviewer, 2021, 2020, 2019.
- Reviewer for journals: *Annals of Applied Statistics*, *Journal of the American Statistical Association (Theory & Methods, Case Studies)*, *Journal of Statistical Theory and Practice*, *PLOS ONE*, *Statistical Analysis and Data Mining*, *Frontiers Astronomy*, *Journal of Machine learning Research*, *Earth, Planets and Space*, *Astronomy and Computing*, *Journal of Statistical Theory and Practice*, *Space Weather*, *Frontiers in Genetics*, *Front. Astron. Space Sci. - Astrostatistics*.
- Organizer and chair of topic contributed session “Open Problems in Astrostatistics”, the Joint Statistical Meeting, August 6-11 2022.
- Program Chair 2022, the ASA Astrostatistics Interest Group (AIG).
- Organizer and chair of two companion topic contributed sessions “Statistical and Machine Learning Efforts on Solar Flare Predictions (I & II)”, the Joint Statistical Meeting, August 2021.
- Moderator, Statistical Challenges in Modern Astronomy (SCMA) VII Special Sessions on “Bayesian modeling and computation”, June 9-10, 2021.
- Program Chair Elect 2021, the ASA Astrostatistics Interest Group (AIG).
- Reviewer of internal selection of Ph.D. student fellowship at the University of Michigan, September 2020.

- Committee of student paper competition at Statistical Learning and Data Science/Nonparametric Statistics (SLDS) 2020, March 2020.
- Seminar Committee of MIDAS, 2020 Winter.
- Program Committee of *The 2019 MIDAS Symposium*, “Embracing the Challenge: Data Science for the Next Ten Years”, University of Michigan, November 13-15, 2019.
- Organizer and Chair of Special Invited Session “Advances in hidden Markov models: Theory and applications”, National Chung Hsing University (NCHU), Taichung, Taiwan, June 26, 2019.
- Secretary, *American Statistical Association (ASA) Astrostatistics Interest Group*, January 2018 - January 2020.
- Organizer, Fifth Bayesian, Fiducial, and Frequentist (BFF5) Conference: Foundations of Data Science, University of Michigan, Ann Arbor, MI, May 2018.
- Organizer, Bayes Reading Group, University of Michigan, January - April, 2018.
- Mentor for WISTEM (Women in Science, Technology, Engineering, and Mathematics), Harvard University, Cambridge, MA, 2016 - 2017.
- *Ask-a-statistician session*, 224th Meeting of the American Astronomical Society, Boston, MA, June 2014.

#### MENTORING EXPERIENCE

##### **Postdoctoral Fellow.**

- Arya Farahi (MIDAS data science fellow), 2019-2021.  
Currently assistant professor of the Department of Statistics and Data Science (SDS) at the University of Texas at Austin.

##### **Ph.D. Students (as supervisor).**

- Wayne (Yu) Wang, 2018-2022, joint with Alfred O. Hero, currently researcher at Google. Dissertation name: *Interpretable and Scalable Graphical Models for Complex Spatio-temporal Processes*.
- Robert N. Trangucci, 2017-now, joint with Jon Zelner.
- Daniel Iong, 2017-now.
- Bach Viet Do, 2017-now, joint with Long Nguyen.
- Hu Sun, 2020-now.
- Victor Verma, 2022-now

##### **Ph.D. Students (as collaborator).**

- Zeyu Sun (Electrical Engineering and Computer Science)
- Xiantong Wang (Climate and Space Sciences and Engineering)
- Matthew-Remy Aguirre (Industrial and Operations Engineering)
- Spyros Kasapis (Naval Architecture and Marine Engineering)

##### **BRIDGE Program Students.**

- Dylan Glover, currently intern at NASA
- Noah Kochanski

##### **Master Students (as research mentor).**

- Tian Zhou, currently Research Engineer at Yahoo.
- Naomi Giertych, currently Ph.D. student at North Carolina State University.



- Zhenbang Jiao, currently Ph.D. student at the Ohio State University.
- Hu Sun, currently Ph.D. student at the University of Michigan, Ann Arbor.
- Zhijun Hua, currently Ph.D. student at Cornell University.
- Xianlin Sun, currently Ph.D. student at the University of Hong Kong
- Hongfan Chen, currently Ph.D. student at the University of Michigan
- Wei Zhao, currently Ph.D. student at North Carolina State University
- Yurui Chang
- Zeyuan Li
- Qikai Hu
- Ruoyang Liu

DOCTORAL  
DISSERTATION  
COMMITTEE

- Matthew-Remy Aguirre, Ph.D. candidate in Industrial and Operations Engineering.
- Sicen Du, Ph.D. candidate in Material Science and Engineering.
- Yuqi Zhai, Ph.D. candidate in Biostatistics.
- Zeyu Sun, Ph.D. candidate in Electrical Engineering and Computer Sciences.
- Elizabeth Chase, Ph.D. candidate in Biostatistics.
- Brian Swiger, Ph.D. in Climate and Space Sciences, 2022.
- Rayleigh Lei, Ph.D. in Statistics, 2022.
- Xianing Zheng, Ph.D. in Human Genetics, dual degree in Statistics, 2022.
- Caleb Ki, Ph.D. in Statistics, 2022.
- Jiaen Ren, Ph.D. in Climate and Space Sciences, 2021.
- Allison Furgal, Ph.D. in Biostatistics, 2021.
- Tian Gu, Ph.D. in Biostatistics, 2021.
- Yang Zhang, Ph.D. in Sociology, dual degree in Statistics, 2021.
- April Cho, Ph.D. in Statistics, 2020.
- Shannon Ang, Ph.D. in Sociology, dual degree in Statistics, 2020.
- Abigail Azari, Ph.D. in Climate and Space Sciences, 2020.
- Ryan Dewey, Ph.D. in Climate and Space Sciences, 2020.
- Yumu Liu, Ph.D. in Statistics, 2020.
- Yuan Sun, Ph.D. in Statistics, 2020.
- Julie Deeke, Ph.D. in Statistics, 2019.
- Hao Liu, Ph.D. in Physics, 2018.
- Dan Li, Ph.D. in Pharmaceutical Sciences, dual degree in Statistics, 2018.