Feng Yu – Curriculum Vitae

Contact

Position: Postdoctoral Researcher, Department of Mathematics and Statistics, Old Dominion University
Address: 2300 Engineering & Computational Sciences Building Norfolk, VA 23529
Office: ECSB 2204
Phone: (+1) 518 364 2764
Email: yfeng@knights.ucf.edu

Education

- Ph.D. in Mathematics, University of Central Florida, Orlando, Florida, 2021
  Dissertation: Regularized Estimations in Some Statistical Problems
  Advisor: Teng Zhang
- M.S. in Mathematics, University of Central Florida, Orlando, Florida, 2018
- B.S. in Mathematics, Southwestern University of Finance and Economics, China, 2016
- B.E. in Economics, Southwestern University of Finance and Economics, China, 2016

Work Experience

Department of Mathematics and Statistics, Old Dominion University

- Postdoctoral Researcher, Advisor: Guohui Song, 08/2022–current

Department of Mathematics and Statistics, State University of New York at Albany

- Postdoctoral Researcher, Advisor: Yiming Ying, 08/2021–07/2021

Department of Mathematics, University of Central Florida

- Research Assistant, Mentor: Teng Zhang & Yehuda Braiman, 08/2020–08/2021
- Teaching Associate, Department of Mathematics, UCF 08/2019–05/2020
- Research Assistant, Mentor: Teng Zhang, 05/18–08/18,01/19–08/19,05/20–08/20
- Teaching Assistant, Department of Mathematics, UCF 08/16–05/18, 08/18-12/18

Teaching Experience

Department of Mathematics, University of Central Florida

- Instructor for Logic and Proof in Mathematics (MHF 3302) Spring 2020
- Instructor for Calculus With Analytic Geometry III (MAC 2313) Fall 2019
- Teaching Assistant for ODE I (MAP2302) Summer 2017, Fall 2018
- Teaching Assistant for Calculus I (MAP2311) Fall 2017, Spring 2018

Honors And Scholarships

- Outstanding Dissertation Award, Department of Mathematics, UCF, 2021
- Graduate Research Excellence Award, Department of Mathematics, UCF, 2020
- ORC Doctoral Fellowship, UCF, 2016
- Outstanding Dissertation Award, SWUFE, 2016

Publications

Journal Papers

1. **Feng Yu**, Teng Zhang, Phase retrieval of complex-valued objects via a randomized Kaczmarz method, Information and Inference: A Journal of the IMA, 2021.

2. Raj Gautam Dutta, Yaodan Hu, Yier Jin, **Feng Yu**, and Teng Zhang, Design and Analysis of Secure Distributed Estimator for Vehicular Platooning in Adversarial Environment, *IEEE Transactions on Intelligent Transportation Systems*, doi: 10.1109/TITS.2020.3036376.

3. Qi Wang, Jingyue Yang, and **Feng Yu**, Global well-posedness of advective Lotka–Volterra competition system with nonlinear diffusion. *Proceedings of the Royal Society of Edinburgh: Section A Mathematics*, 150(5), 2322-2348. doi:10.1017/prm.2019.10.

4. Qi Wang, Jingyue Yang, and **Feng Yu**, Boundedness in logistic Keller–Segel models with nonlinear diffusion and sensitivity functions. *Discrete & Continuous Dynamical Systems - A*, 2017, 37(9): 5021-5036.

5. Ke Wang, Qi Wang, and **Feng Yu**, Stationary and time periodic patterns of two-predator and one-prey systems with prey-taxis. *Discrete & Continuous Dynamical Systems - A*, 2017, 37(1): 505-543.

Peer-Reviewed Conference Papers

1. **Feng Yu**, Yaodan Hu, Teng Zhang, Yier Jin, Special Issue: Resilient Distributed Estimator with Information Consensus for CPS Security. *The 38th IEEE International Conference on Computer Design*, 2020.

2. Raj Gautam Dutta, Yaodan Hu, Yier Jin, **Feng Yu**, and Teng Zhang, Fast Attack-Resilient Distributed State Estimator for Cyber-Physical Systems. *International Conference on Embedded Software*, 2020.

3. Raj Gautam Dutta, Yaodan Hu, Yier Jin, **Feng Yu**, and Teng Zhang, Security for Safety: A Path Toward Building Trusted Autonomous Vehicles. *International Conference On Computer Aided Design*, 2018.

Manuscript

1. **Feng Yu**, Yi Yang and Teng Zhang, An Algorithm for Graph-Fused Lasso Based on Graph Decomposition, arXiv:1908.02370.

2. Teng Zhang, **Feng Yu**, Marianna Pensky, Xing Fan, ALMA: Alternating Minimization Algorithm for Clustering Mixture Multilayer Network, arXiv:2102.10226.

3. Hsin-Hsiung Huang, **Feng Yu**, Xing Fan, Teng Zhang, Robust Regularized Low-Rank Matrix Models for Regression and Classification, arXiv:2205.07106.

Computing Packages

1. MATLAB/python codes "novelGFL": An Algorithm for Graph-Fused Lasso Based on Graph Decomposition

Talks And Presentations

- EMSOFT: The ACM SIGBED International Conference on Embedded Software, Virtual Conference, September 2020.
- The 38th IEEE International Conference on Computer Design, Hartford, CT, October 2020.

Professional Service

- Student Co-chair, Information Theory and Applications Workshop, 2020
- Graduate Student Academic Appeal Committee, University of Central Florida, 2019
- Reviewer for Journals & Conferences
    1. Journal of Biological Systems, 2020-2021
    2. IEEE Transactions on Intelligent Transportation Systems, 2019-2021