

Yuejie Chi

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RESEARCH INTERESTS

Statistical signal processing, mathematical optimization, machine learning, compressed sensing; and their applications in high-dimensional and multi-modal data inference, inverse problems, network and imaging science, and biomedical informatics.

EDUCATION

Ph.D. in Electrical Engineering, **Princeton University**, Princeton, NJ Sep. 2012
 Dissertation: "Exploitation of Geometry in Signal Processing and Sensing"
 Advisor: Prof. Robert Calderbank
 Minor: Operational Research and Financial Engineering

M.A. in Electrical Engineering, **Princeton University**, Princeton, New Jersey Sep. 2009
 B.Eng. in Electronic Engineering, **Tsinghua University**, Beijing, P. R. China Jul. 2007

WORK EXPERIENCE

Assistant Professor, **The Ohio State University**, Columbus, OH Sep. 2012 - present
 Dept. of Electrical and Computer Engineering, College of Engineering, 75% FTE
 Dept. of Biomedical Informatics (Division of Data Science), College of Medicine, 25% FTE

Visiting Faculty Fellow
 Information Directorate, **Air Force Research Lab**, Rome, NY Summer 2014

Research Assistant
 Dept. of Electrical Engineering, **Princeton University**, Princeton, NJ 2008 - 2012

Visiting Scholar
 Dept. of Electrical and Computer Engineering, **Duke University**, Durham, NC 2011 - 2012
 Dept. of Electrical Engineering, **Stanford University**, Stanford, CA Fall 2010
 Dept. of Electrical and Computer Engineering, **Colorado State University**, Ft. Collins, CO Summer 2009

Research Intern
 Imaging Group, **Mitsubishi Electric Research Lab**, Cambridge, MA Summer 2011
 Corporate Research and Development, **Qualcomm Inc.**, San Diego, CA Summer 2010

PUBLICATIONS ON GOOGLE SCHOLAR

<http://scholar.google.com/citations?user=h1NXfKYAAAAJ&hl=en>

TEACHING EXPERIENCE

Instructor, Dept. of Electrical and Computer Engineering, The Ohio State University, Fall 2012 - present

- ECE 3050: Signals and Systems (Undergraduate)
- ECE 5000: Introduction to Analog and Digital Communications (Graduate & Undergraduate)
- ECE 6001: Probability and Random Variables (Graduate)
- ECE 8193: Independent Studies on Compressed Sensing: multiple offerings.
- ECE 8201: Advanced Topics in Signal Processing: Subspace Methods for High-dimensional Data (Graduate)

Assistant Instructor, Dept. of Electrical Engineering, Princeton University, Spring 2009

- ECE 482: Digital Signal Processing

SELECTED HONORS & AWARDS

- Faculty Early Career Development Program (CAREER) Award, National Science Foundation, 2017.
- Young Investigator Program (YIP) Award, Office of Naval Research, 2015.
- Young Investigator Program (YIP) Award, Air Force Office of Scientific Research, 2015.
- Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge Associated Universities, 2014.
- IEEE Signal Processing Society Young Author Best Paper Award, 2013.
- Google Faculty Research Award, Google, 2013.
- IEEE ICASSP Best Student Paper Award, 2012.
- Roberto Padovani Scholarship, Qualcomm Inc., 2010.

SELECTED RESEARCH SUPPORT

1. NSF, "CIF: Medium: Collaborative Research: Nonconvex Optimization for High-Dimensional Signal Estimation: Theory and Fast Algorithms", PI, 2017 – 2021.
2. NSF, "CAREER: Robust Methods for High-dimensional Signal Processing under Geometric Constraints", PI, 2017 – 2022.
3. NSF, "EAGER-DynamicData: Subspace Learning from Binary Sensing", PI, 2015 –2018.
4. NSF, "CIF: Small: Inverse Methods for Parametric Mixture Models", PI, 2015 – 2018.
5. ONR, "Inverse Methods for High-dimensional Multi-modal Data", PI, 2015 – 2018.
6. AFOSR, "Low-Complexity Inference Strategies for Large-Scale Data Streams", PI, 2015 – 2018.
7. NSF, "CIF: Small: Collaborative Research: Sketching and Tracking of Covariance Structures for High-dimensional Streaming Data", PI, 2014 – 2016.