
Pinjia Zhang

PH.D. STUDENT
ELECTRICAL ENGINEERING

Arizona State University



pzhang97@asu.edu



Tempe, AZ, USA



linkedin.com/in/pinjia-zhang



RESEARCH AREA

Statistical Signal Processing



RESEARCH INTERESTS

- High-Dimensional Statistical Inference
- Time-Frequency Analysis
- Spectral Estimation
- Machine Learning for Signal Processing



ADVISOR

Prof. Antonia Papandreou-Suppappola



Pinjia Zhang

Ph.D. Student, Electrical Engineering · Arizona State University

CURRICULUM VITAE

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Tempe, AZ, USA

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EDUCATION

Arizona State University — Ph.D. in Electrical Engineering

Aug 2025 – Present

Advisor: Antonia Papandreou-Suppappola · Research Area: Statistical Signal Processing

Arizona State University — M.S. in Electrical Engineering

Aug 2022 – May 2025

GPA: 3.62

Iowa State University — B.S. in Electrical Engineering

Aug 2014 – May 2021

RESEARCH INTERESTS

Statistical Signal Processing · Time-Frequency Analysis · Spectral Estimation · High-Dimensional Statistical Inference · Machine Learning for Signal Processing

PUBLICATIONS

- ◆ **Zhang, P.**, Chakrabarti, C., and Papandreou-Suppappola, A. “Efficient Computational Estimation Methods in High-Frequency Time-Frequency Spectrum Sharing Environments Based on Feature Learning.” *Proceedings of the 59th Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, CA, USA, 2025, pp. 1355–1359.

RESEARCH EXPERIENCE

Graduate Research Associate

2022 – Present

School of Electrical, Computer and Energy Engineering, Arizona State University

- Conduct research in statistical signal processing under Prof. Antonia Papandreou-Suppappola.
- Develop estimation algorithms for time-frequency shared spectrum environments.
- Implement and evaluate methods using Python and MATLAB.
- Contribute to conference publications and research presentations.

SKILLS

PROGRAMMING

Python, MATLAB, C/C++, R

SIGNAL PROCESSING

Statistical Signal Processing, Spectral Estimation, Time-Frequency Analysis

TOOLS

NumPy, SciPy, PyTorch, Git, LaTeX