

ZIYI (FRANCIS) YIN

CODA S1363C, 756 West Peachtree St NW, Atlanta, GA 30308 | ziyi.yin@gatech.edu | ziyiyin97.github.io

EDUCATION

Georgia Institute of Technology

Ph.D. in Computational Science and Engineering

Advisor: [Prof. Felix J. Herrmann](#), GPA: 4.00/4.00

Atlanta, GA

Aug 2019 - Present

Emory University

B.S. in Mathematics and Computer Science (summa cum laude)

Advisor: [Prof. James G. Nagy](#), GPA: 3.98/4.00, Major GPA: 4.00/4.00

Atlanta, GA

Aug 2017 - May 2019

Beihang University

Major: Mathematics

Beijing, China

Sep 2015 - Jul 2017

RESEARCH INTERESTS

Machine Learning, Scientific Computing, PDE-constrained Optimization, Inverse Problems

INDUSTRY EXPERIENCE

Pactera Technology International Ltd.

Machine Learning Intern

Dalian, China

May 2019 - Aug 2019

TEACHING EXPERIENCE

Georgia Institute of Technology

Head Teaching Assistant for CSE/MATH 6644 Iterative Methods for Systems of Equations, *Fall 2020*

Atlanta, GA

Emory University

EPASS Peer Tutor for MATH 250/361/362: Foundation of Mathematics, Probability and Statistics I & II, *Summer 2018, Fall 2018, Spring 2019*

Atlanta, GA

LEADERSHIP EXPERIENCE

Georgia Institute of Technology Geophysical Society

President

Secretary

Atlanta, GA

Oct 2020 - Present

Nov 2019 - Oct 2020

Office of Undergraduate Studies, Emory University

Academic Fellow

Atlanta, GA

Aug 2018 - May 2019

HONORS AND AWARDS

SEG/Chevron Student Leadership Symposium travel grant

Graduate with Highest Honors (summa cum laude), Emory University

Phi Beta Kappa Honor Society Membership

Dean's List, Emory University

Jun 2020

May 2019

Apr 2019

Aug 2017 - May 2019

SKILLS

Programming: Python, MATLAB, Julia, Java, C/C++, SQL, PHP, R, Assembly, \LaTeX

Language: English (Proficient), Chinese (Native), German (Elementary)

PUBLICATIONS

- Mathias Louboutin, Ziyi Yin, Yijun Zhang, et al. “Sparsity promoting least-squares migration for long offset sparse OBN”. In: *SEG Workshop on Promises and Challenges with Sparse Node Ultra-long Offset OBN Acquisition in Imaging and Earth Model Building*. Oct 2020. URL: <https://slim.gatech.edu/content/sparsity-promoting-least-squares-migration-long-offset-sparse-obn>.
- Ziyi Yin, Rafael Orozco, Philipp A. Witte, et al. “Extended source imaging, a unifying framework for seismic & medical imaging”. In: *SEG Technical Program Expanded Abstracts 2020*. Sep 2020, page 3502-3506, DOI: [10.1190/segam2020-3426999.1](https://doi.org/10.1190/segam2020-3426999.1).
- Ziyi Yin. “Edge Detection and Enriched Subspaces”. *Undergraduate honors thesis for Bachelor of Sciences with Highest Honors*. May 2019. URL: <https://etd.library.emory.edu/concern/etds/7w62f916x?locale=en>.