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 — Atlanta, GA
Doctor of Philosophy in Computational Science and Engineering — *Aug 2019 - Present*
Advisor: Prof. Felix J. Herrmann

Emory University — Atlanta, GA
Bachelor of Science in Mathematics and Computer Science — *Aug 2017 - May 2019*
Advisor: Prof. James G. Nagy

Beihang University — Beijing, China
Major: Mathematics — *Sep 2015 - Jul 2017*

RESEARCH INTERESTS

Machine Learning, PDE-constrained Optimization, Inverse Problems, Computational Imaging

INDUSTRY EXPERIENCE

Pactera Technology International Ltd. — Dalian, China
Machine Learning Intern — *May 2019 - Aug 2019*

RESEARCH EXPERIENCE

Georgia Institute of Technology — Atlanta, GA
Graduate Research Assistant — *Aug 2019 - Present*

Emory University — Atlanta, GA
Undergraduate Honors Research — *May 2018 - May 2019*

TEACHING EXPERIENCE

Georgia Institute of Technology — Atlanta, GA
Graduate Teaching Assistant for Exploration Seismology — *Jan 2021 - Present*
Graduate Teaching Assistant for Iterative Methods for Systems of Equations — *Aug 2020 - Dec 2020*

Emory University — Atlanta, GA
EPASS Peer Tutor for Probability and Statistics I & II — *Aug 2018 - May 2019*
EPASS Peer Tutor for Foundation of Mathematics — *May 2018 - May 2019*

LEADERSHIP EXPERIENCE

Georgia Institute of Technology Geophysical Society — Atlanta, GA
President — *Oct 2020 - Present*
Secretary — *Nov 2019 - Oct 2020*

Office of Undergraduate Studies, Emory University — Atlanta, GA
Academic Fellow — *Aug 2018 - May 2019*

HONORS AND AWARDS

SEG/Chevron Student Leadership Symposium travel grant	*Jun 2020*
Graduate with Highest Honors (*summa cum laude*), Emory University	*May 2019*
Phi Beta Kappa Honor Society Membership	*Apr 2019*
Dean's List, Emory University	*Aug 2017 - May 2019*

SKILLS

Programming: Python, Julia, MATLAB, Java, C/C++, Bash, 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.

- 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.