ZIYI (FRANCIS) YIN

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
Doctor of Philosophy in Computational Science and Engineering — *Aug 2019 - Present*
Advisor: Prof. Felix J. Herrmann, GPA: 4.00/4.00

Emory University — Atlanta, GA
Bachelor of Science in Mathematics and Computer Science (summa cum laude) — *Aug 2017 - May 2019*
Advisor: Prof. James G. Nagy, GPA: 3.98/4.00, Major GPA: 4.00/4.00

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

RESEARCH INTERESTS

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

INDUSTRY EXPERIENCE

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

TEACHING EXPERIENCE

Georgia Institute of Technology — Atlanta, GA
Head Teaching Assistant for CSE/MATH 6644 Iterative Methods for Systems of Equations, *Fall 2020*

Emory University — Atlanta, GA
EPASS Peer Tutor for MATH 250/361/362: Foundation of Mathematics, Probability and Statistics I & II, *Summer 2018, Fall 2018, Spring 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.