

# ZIYI (FRANCIS) YIN

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## EDUCATION

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### 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

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

## TEACHING EXPERIENCE

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### 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

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### 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

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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

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

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

## PUBLICATIONS

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- 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.

- Ziyi Yin, Rafael Orozco, Philipp 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.