

# ZIYI (FRANCIS) YIN

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## EDUCATION

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### Georgia Institute of Technology

*Doctor of Philosophy in Computational Science and Engineering*

Advisor: [Prof. Felix J. Herrmann](#)

Atlanta, GA

*Aug 2019 - Present*

### Emory University

*Bachelor of Science in Mathematics and Computer Science*

Advisor: [Prof. James G. Nagy](#)

Atlanta, GA

*Aug 2017 - May 2019*

### Beihang University

*Major: Mathematics*

Beijing, China

*Sep 2015 - Jul 2017*

## RESEARCH INTERESTS

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

## INDUSTRY EXPERIENCE

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### Pactera Technology International Ltd.

Machine Learning Intern

Dalian, China

*May 2019 - Aug 2019*

## RESEARCH EXPERIENCE

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### Georgia Institute of Technology

Graduate Research Assistant

Atlanta, GA

*Aug 2019 - Present*

### Emory University

Undergraduate Honors Research

Atlanta, GA

*May 2018 - May 2019*

## TEACHING EXPERIENCE

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### Georgia Institute of Technology

Head Teaching Assistant for Iterative Methods for Systems of Equations

Atlanta, GA

*Aug 2020 - Dec 2020*

### Emory University

EPASS Peer Tutor for Probability and Statistics I & II

EPASS Peer Tutor for Foundation of Mathematics

Atlanta, GA

*Aug 2018 - May 2019*

*May 2018 - May 2019*

## 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, Julia, MATLAB, Java, C/C++, Bash, SQL, PHP, R, Assembly, L<sup>A</sup>T<sub>E</sub>X  
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. 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>.