

# KHOI TRINH

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## EDUCATION

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### University of Oklahoma

*Expected Dec 2026*

Ph.D. in Data Science & Analytics

GPA: 4.0/4.0

Advisor: Dr. Anindya Maiti

Research Focus: AI-generated media, human-AI interaction, and accessibility and equitability in generative AI

Dissertation (in progress): *Towards Accessibility and Equitability in Generative Artificial Intelligence*

Key courses: Database Management Systems, Analytics and Metaheuristics, Intelligent Data Analytics

### University of Oklahoma

*Dec 2019*

M.S. in Natural Gas Engineering & Management

GPA: 3.7/4.0

Advisor: Dr. Rouzbeh Moghanloo

Thesis: *Economic Feasibility Study of Several Utilization Alternatives for a Stranded Offshore Gas Reservoir*

### University of Oklahoma

*Dec 2017*

B.S. in Petroleum Engineering

GPA: 3.3/4.0

## RESEARCH EXPERIENCE

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### ScooterLab (University of Oklahoma — University of Texas at San Antonio)

Aug 2023 - Present

*Backend Systems Developer*

*Norman, OK*

- Develop and maintain a backend API for ScooterLab, an NSF-funded micromobility research project.
- Utilize Python and SQL to optimize data collection and analysis for urban transportation research.

### University of Oklahoma School of Computer Science

Jan 2022 - present

*Graduate Research Assistant*

*Norman, OK*

- Conduct research on AI-generated media and its ethical implications, with a focus on making human-driven workflows for equitable and accessible.
- Utilize machine learning and statistical techniques to assess the impact of generative AI on intellectual property and societal discourse.

## TEACHING AND MENTORING EXPERIENCE

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### Ronnie K Irani Center for the Creation of Economic Wealth

Aug 2019 - Dec 2019

*Graduate Assistant*

*Norman, OK*

- Mentored the Oil and Gas Analyst team on a 16-week analysis project of production data from the Austin Chalk, provide help and tutorial in PETRA.

### Mewbourne College of Earth and Energy

Jan 2018 - Dec 2019

*Graduate Teaching Assistant*

*Norman, OK*

- Integrated Reservoir Management and Production Engineering II: Held office hours to assist an average of 200 students with questions, as well as, provided help and tutorial in PETRA.

## ACADEMIC SERVICES

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- **Hacklahoma:**
  - Member of the Tech team for the 2024 Hackathon.
  - Served as both Judge and Mentor for the 2025 Hackathon.
  - Lead workshops including: Spotify streaming data analysis; Introduction to LaTeX; Introduction to R.
- **Artificial Intelligence and Machine Learning Club:**
  - Outreach Director for the 2022-2023 academic year.
  - Education Co-director for the 2024-2025 academic year.
  - Lead workshops including: Introduction to data collection and machine learning; Spotify streaming data analysis; Hosting your own Stable Diffusion image generation model.
- **Data Science and Analytics Club:**
  - Vice President for the 2024-2025 academic year.
  - Coordinate workshops including: Selecting the best database for your project.

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## STUDENTS CO-MENTORED

- Nima Najafian (Aug 2023 - Present) - B.S. in Computer Science - Using Python and SQL to analyze GPS data and detect errors in trip trajectory the scooter fleet at ScooterLab

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## PUBLICATIONS & PRESENTATIONS

### Manuscripts Peer-Reviewed and Published

- **A Picture is Worth a Thousand Prompts? Efficacy of Iterative Human-Driven Prompt Refinement in Image Regeneration Tasks**  
*Khoi Trinh, Scott Seidenberger, Raveen Wijewickrama, Murtuza Jadliwala, Anindya Maiti*  
 International Joint Conference on Artificial Intelligence (IJCAI), Montreal, Quebec, Canada 2025  
 Preprint: arXiv:3456.78901
- **ScooterLab: A Programmable and Participatory Sensing Testbed using Micromobility Vehicles**  
*Ubaidullah Khan, Raveen Wijewickrama, Buddhi Ashan M.K., A.H.M. Nazmus Sakib, Khoi Trinh, Christina Duthie, Nima Najafian, Ahmer Patel, R.N. Molina, Anindya Maiti, Sushil K. Prasad, Greg P. Griffin, Murtuza Jadliwala*  
 IEEE International Conference on Pervasive Computing and Communications (PerCom) Demo Session, Washington D.C., USA 2025  
 Preprint: arXiv:2501.06177
- **Economic Feasibility Study of Several Utilization Alternatives for a Stranded Offshore Gas Reservoir**  
*Khoi Trinh, Rouzbeh Moghanloo*  
 Offshore Technology Conference (OTC), Houston, Texas, USA 2020  
 DOI: 10.4043/30732-MS

### Manuscripts Under Review

- **Promptly Yours? Prompt Inference and Ownership Dilemma in AI-Generated Art**  
*Khoi Trinh, Joseph Spracklen, Raveen Wijewickrama, Bimal Viswanath, Murtuza Jadliwala, Anindya Maiti*  
 Preprint: arXiv:2410.08406



## Manuscripts in Progress

- **CANARY: Change Analysis and Network Anomaly Recognition sYstem**  
*Scott Seidenberger, Anindya Maiti, Khoi Trinh, Koy Wilson, Tristan Bony*
- **SEADRAGON: Secure Ethereum Anonymity & Defense Relay via Advanced Global Overlay Network-ing**  
*Scott Seidenberger, Anindya Maiti, Khoi Trinh, Koy Wilson, Tristan Bony*

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, R, Java, C++, Kotlin
<b>Libraries</b>	pandas, NumPy, Matplotlib, Selenium
<b>Fluency In</b>	English, Vietnamese

## OTHER PROFESSIONAL EXPERIENCE

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**Mewbourne College of Earth and Energy - Project provided by Crescent Point Energy**      May 2017 - July 2017  
*Summer Intern*      *Norman, OK*

- Conducted analysis on waterflood project effectiveness in the Uinta Basin using decline curve analysis.

**Summer Operations Intern**      June 2016 - August 2016  
*Summer Operations Intern*      *Ho Chi Minh City, Vietnam*

- Analyzed gas production data for offshore natural gas fields in Vietnam.
- Reviewed technical process diagrams (PFDs, UFDs, and P&IDs) for operational optimization.

## COMMUNITY ENGAGEMENT

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**Vien Giac Buddhist Temple**      Summer 2018  
*Volunteer Guitar Instructor*      *Oklahoma City, OK*

- Developed and delivered a structured guitar curriculum for beginner students in a community temple setting.
- Created weekly lesson plans covering technique, rhythm, and basic music theory.
- Fostered a welcoming and inclusive environment for young learners from diverse backgrounds.