

# Chau Tran

Department of Statistics  
University of California, Davis

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## EDUCATION

**Ph.D. in Statistics**, University of California, Davis, 2023 - 2028 (expected)

**M.A. in Statistics**, University of California, Santa Barbara, 2022  
Advisors: Alexander Petersen, Sang-Yun Oh

**B.A. in Statistics**, University of California, Santa Barbara, 2020  
Minor in Mathematics

## RESEARCH EXPERIENCE

**Data Scientist**, Perelman School of Medicine, University of Pennsylvania, 2022 - 2023  
Advisor: Yong Fan  
Worked on applications of statistics and machine learning methods to neuroimaging.

**Research Assistant**, University of California, Santa Barbara, 2021 - 2022  
Advisors: Alexander Petersen, Wendy Meiring  
Developed spatio-temporal models for statistical analysis of functional MRI data.

**Master's Thesis in Statistics**, University of California, Santa Barbara, 2020 - 2022  
Advisors: Alexander Petersen, Sang-Yun Oh  
Thesis on the topics of high-dimensional statistics, Gaussian graphical models, and multiple testing.

## PUBLICATIONS

[3] Chao Zhang, Chau Tran, Sophie Achard, Wendy Meiring, and Alexander Petersen. "A mixed model approach for estimating regional functional connectivity from voxel-level BOLD signals". Submitted. [arXiv:2211.02192](https://arxiv.org/abs/2211.02192) [stat.ME].

[2] Chau Tran and Guo Yu. "A completely tuning-free and robust approach to sparse precision matrix estimation". *39th International Conference on Machine Learning (ICML)*, 2022.

[1] Chau Tran, Pedro Cisneros-Velarde, Sang-Yun Oh, and Alexander Petersen. "Family-wise error rate control in Gaussian graphical model selection via distributionally robust optimization". *Stat*, 11(1), 2022.

## TEACHING EXPERIENCE

**Teaching Assistant**, University of California, Davis  
STA 100: Applied Statistics for Biological Sciences, Winter 2024  
STA 013: Elementary Statistics, Fall 2023

**Teaching Assistant**, University of California, Santa Barbara

PSTAT 126: Regression Analysis, Winter 2022

PSTAT 131/231: Statistical Machine Learning, Fall 2021

PSTAT 134: Statistical Data Science, Spring 2021

PSTAT 197: Data Science Capstone, Winter - Spring 2021

PSTAT 5A: Introductory Statistics, Winter 2021

PSTAT 120A: Probability and Statistics I, Fall 2020

## SOFTWARE

**qfuncMM**: Mixed models for quantifying functional connectivity (R package on [GitHub](#)).

**FGLMtrunc**: Truncated estimation in functional generalized linear regression models (on [CRAN](#)).

**robssel**: Robust Selection algorithm for the graphical lasso (on [CRAN](#) and [PyPI](#)).

## AWARDS

International Conference on Machine Learning (ICML) Travel Award, 2022

Graduate Student Researcher Grant, UC Santa Barbara, Summer 2021, Spring 2022

## SERVICE

Reviewer for International Conference on Artificial Intelligence and Statistics (AISTATS), 2023

Last updated: December 16, 2023.