

# ANAND SITHTHARANJAN

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## EDUCATION

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**Stanford University** 2025 - 2030 (expected)

PhD, Economics

**University of California, Berkeley**

PhD, Electrical Engineering & Computer Science 2021 - 2025 (expected)

Advisors: Claire Tomlin, Stuart Russell

GPA: 3.885

Affiliations: Berkeley AI Research, Center for Human-Compatible AI, Hybrid Systems Lab, Kavli Center for Science, Ethics and the Public

Awards & Honors: Kavli Fellowship, Berkeley AI Research Ignition Award, PIBBSS Fellowship

**University of California, Berkeley**

MS, Mathematics 2025 (expected)

GPA: 3.885

**University of California, Berkeley** 2017 - 2021

Bachelor of Arts in Computer Science

Graduated with Highest Distinction (*summa cum laude*)

GPA: 3.968

Awards & Honors: Arthur M. Hopkin Award for Electrical Engineering, URAP Summer Research Fellow, Edward Frank Kraft Award, Dean's Honor List

## PUBLICATIONS

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### **Distributional Preference Learning**

Anand Siththaranjan, Cassidy Laidlaw, Dylan Hadfield-Menell. Accepted to ICLR 2024.

**AI Alignment with Changing and Influenceable Reward Functions** Micah Carroll, Davis Foote, Anand Siththaranjan, Stuart Russell, Anca Dragan. Accepted to ICML 2024.

### **On the Computational Consequences of Cost Function Design in Nonlinear Optimal Control**

Tyler Westenbroek, Anand Siththaranjan, Mohsin Sarwari, Claire J. Tomlin, Shankar Sastry. Accepted to CDC 2022.

### **Analysing Human Models that Adapt Online**

Andrea Bajcsy, Anand Siththaranjan, Claire J. Tomlin, Anca D. Dragan. Accepted to ICRA 2021.

## WORKING PAPERS

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**When Can Communication Be Informative?** (with Yuichiro Kamada)

**Intent Demonstration in General-Sum Dynamic Games via Iterative Linear-Quadratic Approximations** (with Jingqi Li, Somayeh Sojoudi, Claire Tomlin, Andrea Bajcsy)

**Social Planning with the Replicator Dynamics** (with Claire Tomlin). Revise and Resubmit at IEEE Control Systems Letters.

**Multi-Modal Paired Exchange.** Accepted to 36th Stony Brook Game Theory Conference.

**Kidney Exchange with Multiple Donors.**

## WORK-IN-PROGRESS

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**Bargaining with Distressed Borrowers** (with Manisha Padi and Arka Bandyopadhyay)

**Stable Matching under Progressive Certainty**

**Incentive-Compatible Feedback Control** (with Claire Tomlin)

**Participation in Kidney Exchange** (with Haluk Ergin and Quitz Valenzuela-Stookey)

**Pairwise Kidney Exchange with Chains** (with Haluk Ergin)

**Set Invariance in Differential Games** (with Claire Tomlin)

## TEACHING

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### **Algorithmic Economics**

*Econ 147/CS 177*

January - May 2024/2025

*UC Berkeley*

Teaching Assistant for Algorithmic Economics under Professor Federico Echenique. Topics include object allocation (deterministic and random), VCG mechanisms, optimal auctions, fair division, and more.

## EMPLOYMENT

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### **Research Assistant**

*School of Law, UC Berkeley*

February 2023 -

Working under Professor Manisha Padi on an empirical study analyzing the interactions between mortgage servicers and borrowers in distress.

### **Research Intern**

*Vector Institute for Artificial Intelligence*

May 2023 - August 2023

Working under Professor Gillian Hadfield on the theory of normative infrastructure and game-theoretic models of legal orders.

### **PIBBSS Fellow**

*Principles of Intelligent Behavior in Biological and Social Systems*

May 2022 - August 2022

Was accepted as a research fellow at the PIBBSS program, where I collaborated with Professor Dylan Hadfield-Menell in analyzing limitations of reward learning from human feedback.

### **Reader**

*EE 227B*

August 2020 - December 2020

Worked as a member of course staff for EE 227B, a class on convex, non-convex and robust optimization theory that normally caters to first and second year PhD students studying Electrical Engineering and Computer Science or Mechanical Engineering.

### **Research Assistant**

*Hybrid Systems Lab*

May 2020 - August 2020

Worked as a research assistant within Professor Tomlin's Hybrid Systems Lab for the summer of 2020. Conducted research on synthesizing a contingency planner for safe human-robot interaction by developing a discrete-time Hamilton-Jacobi implementation for analysis of human motion predictors.

### **Reader**

*EECS 127*

August 2019 - December 2019

Worked as a member of course staff for EECS 127, a class on optimization models in engineering for undergraduates and PhD students, where tasks included grading assignments for 300+ students.