# Udayan Tandon

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## Research interests

Design, Human-Computer Interaction, Science and Technology Studies, Infrastructure Studies, and Community-Based Research

## Education

**University of California, San Diego**     San Diego, CA
Ph.D. in Computer Science     September, 2019 – Present
Mentors: Lilly Irani, Kristen Vaccaro.

**Indraprastha Institute of Information Technology**     Delhi, India
B.Tech. in Computer Science     August 2012 – December 2016

## Honors and scholarships

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|---|---|
| Institute of Practical Ethics Fellow | 2021-22 |
| 3C Fellow | 2021-22 |

## Publications

**Hostile Ecologies: Navigating the Barriers to Community-Led Innovation**
**Udayan Tandon**, Vera Khovanskaya, Enrique Arcilla, Mikaiil Haji Hussein, Peter Zschiesche, and Lilly Irani.
*Proceedings of the ACM on Human-Computer Interaction (CSCW 2022), 2022.*

## Policy Reports

**Transportation for Smart and Equitable Cities: Integrating Taxis and Mass Transit for Access, Emissions Reduction, and Planning**
Irani, Lilly, Hussein, Mikaiil, Zschiesche, Peter, **Tandon, Udayan**, Arcilla, Enrique, Hickman, Louise, Goldsmith, Montana, Singh, Simrandeep, and Khovanskaya, Vera.

## Research experience

**Just Platforms: Reinventing Taxis as Public Infrastructure**
Mentors: Lilly Irani (UCSD)     September 2019 – Present
I work in collaboration with United Taxi Workers of San Diego (UTWSD), an immigrant-led taxi worker advocacy organization, to create an alternative platform for dignified driving work. My work here is not to design or build, per se, but rather to co-investigate with UTWSD the possible configurations of socio-technical infrastructures that are accountable to drivers and the broader communities who are typically excluded from technological visions. In my writing and presentation of this work, I develop a thick-description and put it in conversation with literature from Participatory Design, Design Justice, Real Utopias, and more to analyze the political economy of community-driven technology development and discuss strategies and pathways forward.

**Prayana**

Mentors: Jacki O'Neill (Microsoft Research India)     August 2017 – July 2019

The research focused on the financial literacy of auto rickshaw drivers. In collaboration with Three Wheels United, a micro finance organisation, we designed and developed a FinTech solution to aid the collection of loans given to auto drivers by enabling the intermediaries to interact with the drivers in a smarter way.

Teaching experience

**Teaching assistant, Computer Science (UCSD)**     Summer 2021
CSE 135: Online Database Analytics Applications

**Teaching assistant, Computer Science (UCSD)**     Summer 2021
CSE 134: Web Client Languages

**Teaching assistant, Computer Science (UCSD)**     Winter 2021
CSE 134B: Web Client Languages

**Teaching assistant, Computer Science (UCSD)**     Summer 2020
CSE 134B: Web Client Languages

**Teaching assistant, Computer Science (IIITD)**     Fall 2016
CSE 503: Program Analysis

Short Papers

**Designing a financial management smartphone app for users with mixed literacies**
**Udayan Tandon**, Lavanya Siri, Apurv Mehra, Jacki O'Neill.
*Proceedings of the Tenth International Conference on Information and Communication Technologies and Development, 2019.*

**Prayana:     Intermediated Financial Management in Resource-Constrained Settings**
Apurv Mehra, **Udayan Tandon**, Sambhav Satija, Jacki O'Neill.
*Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems, 2018.*

Talks and presentations

**UTWSD/UCSD's presentation to the Labor, Environmental, and Community Coalition Meeting**     February 2022
Policy Proposal, SDLECC, Presented w/Mikaiil Hussein (President, UTWSD) and Peter Zschiesche (Board Member, UTWSD)

**Just Platforms:     Reinventing Taxis as Public Infrastructure**
November 2021
Poster presentation, Design and Innovation Building Grand Opening

**Graduate Student Spotlight** June 2021

Short presentation, Human Computer Interaction Consortium 2021

**Public Platforms: An approach for creating equitable infrastructures**
February 2021

Short presentation, The Design Lab Showcase 2021

Service and outreach **coala (Core Maintainer)** February 2015 – June 2017

I was an integral part of the growth of coala from a small project with 5 active developers to a community of 250 active developers. I mentored various students and proposed, designed and supervised the implementation of multiple projects.

- GNOME — Google Summer of Code 2015

- Python Software Foundation — Mentor @ GSoC 2016

- coala — Mentor @ GSoC 2017

- coala — Mentor @ Rails Girls Summer of Code 2017

Lab memberships **Just Transitions Initiative** November 2021 – Present
**Feminist Labor Lab** September 2019 – Present
**Design Lab** September 2019 – Present

Other interests Cycling, Running, and Cooking