

# Tynan Challenor

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## EDUCATION

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**PhD student in Economics, University of Washington**

*September 2023-Present*

**M.S. Biomedical Informatics, Stanford University**

*January 2020*

**B.S. Biology with Honors, Stanford University**

*June 2017*

*Minor History*

## RESEARCH

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### Work in Progress

On the Value of Flats: The Impact of Up-Zoning on Rental Prices, Slum-Dwelling, and Mortality in Delhi (with Eric Wang)

BAMIMBY (By All Means In My Back Yard): A Dynamic Urban Model of Street Votes

### Select Pre-PhD Policy Briefs with the Institute for Research on Labor and Employment

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2023, March 22). California's Uninsured in 2024: Medi-Cal expands to all low-income adults, but half a million undocumented Californians lack affordable coverage options. UC Berkeley Labor Center

Lucia, L., **Challenor, T.**, Dietz, M., (2022, April 28) How will Californians' health coverage sources change when the public health emergency ends? UC Berkeley Labor Center

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2022, April 14). California's biggest coverage expansion since the ACA: Extending Medi-Cal to all low-income adults. UC Berkeley Labor Center

Kronick, R., Mulkey, M., Lucia, L., Kadiyala, S., Jacobs, K., Kominski, G.F., **Challenor, T.**, (2021, July 8). Estimated Effects of Unified Financing in California: Summary of Methods and Assumptions (Pages 5-6)

Dietz, M., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Lucia, L., Kominski, G.F., (2021, April 13). American Rescue Plan Improvements to Covered California Affordability: Who Gains?. UC Berkeley Labor Center

Dietz, M., Lucia, L., Kadiyala, S., **Challenor, T.**, Rak, A., Roby, D.H., Kominski, G.F., (2021, April 13). Undocumented Californians Projected to Remain the Largest Group of Uninsured in the State in 2022. UC Berkeley Labor Center

## RA EXPERIENCE

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### Research and Policy Assistant

*August 2020 – August 2023*

#### UC-Berkeley Institute for Research on Labor and Employment

Co-led development of the **CalSIM** microsimulation model (**Python**) assessing federal and state health-policy impacts on coverage and affordability; performed data cleaning and other RA duties in **R**

### Data & Policy Analyst

*July 2019 - July 2020*

#### City of San Jose Parks, Recreation & Neighborhood Services

Fit models in **R** to study connection between maternal and child health and gang incidents. Coupled statistical analysis with geospatial analysis in **ArcGIS**

### Undergraduate Research Assistant

*June 2014 - June 2017*

#### Stanford Department of Earth System Sciences

Performed DNA extraction, quantitative PCR (qPCR), isotopic analysis and literature review for a lab that studies nutrient cycling in aquatic systems

## PROJECTS and POSITIONS

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### Consultant with the Center for Social Science Computation and Research (CSSCR)

*Autumn 2024 - Present*

Consult on computational and statistical questions across social science research; provide technical assistance primarily in R and Python (20 hrs/wk)

### Medical Literature Review Website Developer

*Summer 2024 – Present*

Build website with integrated LLM to determine medical evidence for off-label drug-use (in-progress)

### Library Metadata Specialist

*Autumn 2024 – Present*

Write XSLT code to transform bibliographic records from MARC21 to RDA

### Predicting Chronic Opioid-use in Patients in Florida Medicaid Data

*Spring 2019*

Built **machine-learning models (Python)** to predict opioid dependency among opioid-naïve patients; conducted descriptive profiles of prescribers and patients.

### Detecting Coconut Trees from Aerial Photographs for Disaster Relief

*Winter 2018*

Designed a **TensorFlow CNN** to identify coconut trees in post-disaster aerial photos for the **World Bank Open Data Challenge** on food security.

### Honors Thesis: Stanford Department of Earth Systems Science

*June 2016 - June 2017*

#### *The Resilience of a River: Nitrification and Microbial Activity in Response to Wastewater Effluent*

Collected field samples and performed **qPCR, isotopic, and MATLAB** analyses to quantify microbial nitrogen cycling in the Sacramento–San Joaquin Delta.

## TEACHING EXPERIENCE

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### Graduate TA for University of Washington Undergraduate Economics

- ECON 200: Introduction to Microeconomics

*Jan 2024 – Mar 2024*

- ECON 201: Introduction to Macroeconomics

*Mar 2024 – Jun 2024*

#### **Graduate TA for Stanford Undergraduate Biology Courses**

*Spring 2017 - Spring 2019*

- BIO 43: Evolution, Ecology, and Plant Biology, TA Spring 2017
- BIO 83: Biochemistry & Molecular Biology, CA Winter 2018
- BIO 86: Cell Biology, TA Spring 2018
- BIO 82: Genetics, TA Autumn 2018
- BIO 86: Cell Biology, TA Spring 2019

#### **Teaching Fellow, East Palo Alto Stanford Academy (EPASA)**

*Summer 2017, Summer 2018*

Taught two summers of 8th grade algebra and served on the community-development committee each year for academic summer school program.

#### **Intern: Young In Prison South Africa (YIPSA)**

*Summer 2015*

Taught improv and physical theater in Pollsmoor Maximum Security Prison in Cape Town, South Africa

### **HONORS, GRANTS, AND AWARDS**

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#### **Stanford Community Impact Fellowship**

*July 2019 – July 2020*

(\$40,000) Stipend for applied community-based work awarded by Stanford Haas Center for Public Service

#### **Haas Center for Public Service Teaching Fellowship**

*Summer 2017, Summer 2018*

(\$5,000) Stipend for summer teaching awarded by Stanford Haas Center for Public Service

#### **Stanford Biology Departmental Honors**

*Spring 2017*

Honors thesis with the department of Environmental Earth Systems Science: *The Resilience of a River: Nitrification and Microbial Activity in Response to Wastewater Effluent in the Sacramento/San Joaquin River Delta*

#### **Stanford Environmental Science Undergraduate Research (SESUR) Grant**

*Summer 2014*

(\$6,000) Stipend for undergraduate research in the Earth Sciences awarded by Stanford Earth Systems Science

#### **Stanford Fund Scholarship**

*2013 - 2017*

(\$45,000/yr) Stanford fund scholarship for undergraduate tuition

### **VOLUNTEER EXPERIENCE**

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#### **Court Appointed Special Advocate (CASA)**

*June 2020 – June 2021*

Advocate for teen experiencing the foster system. Attended meetings with case-workers, lawyers, school staff, and composed a court report every six months advocating for the youth's desires in his case.

#### **Spanish Translator for Community Legal Services of East Palo Alto**

*Autumn 2018 - Spring 2019*

On call to translate English to Spanish for Stanford Law School's Economic Advancement Program (EAP)

### **SKILLS**

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**Software:** Python (10 years), R (8 years), GIS (3 years), Matlab (2 years), LLM e.g. cursor (1 year)

**Languages:** English, Spanish (intermediate)