

BENJAMIN C. CHU

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RESEARCH INTERESTS

Health Economics, Public Health, Applied Econometrics

EDUCATION

University of Hawai'i at Mānoa 2016 – 2023

PhD Candidate, Economics

Overall GPA: 3.83

University of Hawai'i at Mānoa 2016 – 2019

MA, Economics

University of Hawai'i at Mānoa 2010 – 2015

BS, Family and Consumer Resources

JOB MARKET PAPER

Title: “Who Did the ACA Medicaid Expansion Impact? Using Linear Discriminant Analysis to Estimate the Probability of Being a Complier” (Revise & Resubmit: Health Economics)

Abstract: Who were the compliers in the ACA Medicaid expansion? Using linear discriminant analysis (LDA), I estimate how characteristics relating to socioeconomic status and race/ethnicity affect the likelihood that an individual will be a complier, defined as those induced by the expansion to obtain Medicaid coverage. Across multiple specifications, part-time and full-time workers are more likely than non-workers to be compliers. Not only is this result more prominent for Black individuals, but they are also more likely to be compliers compared to other racial/ethnic groups. This paper not only serves to identify the types of individuals who were directly impacted by the expansion, but it also introduces a new approach that combines complier analysis with techniques from machine learning.

WORKS IN PROGRESS

1. “Laying Down the Welcome Mat: Measuring the Impacts of the Medicaid Expansion for Children Previously Eligible for Medicaid”
2. Assessing the Effectiveness of Risk Adjustment Systems in Recognizing Dual Diagnosis and Co-occurring Conditions for Mental Health and Substance Use Disorders

POLICY PAPERS AND LEGISLATIVE REPORTS

1. **Chu, B.**, Nakano, L., Do, B., Emory, C., Fan, V.Y. Hawai'i State Epidemiologic Report and County Profiles. Honolulu, HI. August 6th, 2022. Web Version: [Report](#)
2. Aoki, C., Valdez, K., Abe, A., Burke, K., **Chu, B.**, Subia, C., Lumbao, S., Untalan, R., McKee, S., Ha, E., Talagi, D., Fontanilla, T., Worley, K., Galanis, D., Bolan, A., Fan,

V.Y. Hawai'i Opioid Initiative Evaluation Report 2021. Honolulu, HI. August 31st, 2021.
Web Version: [Report](#)

3. Abe, A., **Chu, B.**, Fan, V.Y. State Opioid Response Technical Assistance Plan, 2021.
4. **Chu, B.**, Fontanilla, T., Fan, V.Y. University of Hawai'i at Mānoa. Overdose Data to Action Plan (OD2A) Lāulima Outpatient Dataset - Data Quality Assessment, 2021.
5. **Chu, B.**, Fontanilla, T., Fan V.Y. University of Hawai'i at Mānoa. Overdose Data to Action Plan (OD2A) Lāulima Inpatient Dataset - Data Quality Assessment, 2021.

PROFESSIONAL EXPERIENCE

University of Hawai'i at Mānoa, Center on Aging
Graduate Research Assistant

Honolulu, HI
2019 - Present

- Performed data collection, data cleaning, data visualization, data analysis, and data quality assessment of administrative health insurance claims data using R and Python.
- Assisted in the preparation and crafting of evaluation reports for the Hawai'i Opioid Initiative.
- Collaborated with research analysts, data scientists, and junior faculty in the design, creation, and release of the Hawai'i Behavioral Dashboard.
- Mentored and supervised fellow colleagues in performing rapid lit reviews; preparing and rendering reports in LaTeX; and learning techniques in data collection, data cleaning, data visualization, and data inference in R and Stata.

University of Hawai'i at Mānoa, Department of Economics
Lecturer

Honolulu, HI
2019 - Present

- Taught undergraduate courses in the subjects related to microeconomic theory, macroeconomic theory, and data analysis and visualization.
- Designed and constructed a learning curriculum that is easily accessible for students both in classrooms and online environments.
- Created and implemented a six-week intensive summer data analysis and visualization course for students pursuing quantitative economics.

University of Hawai'i at Mānoa, Center on Disability Studies
Educational Coach

Honolulu, HI
Aug 2019- Dec 2019

- Assisted students with special health care needs on improving their academic and self-management skills such as time management, organization, and study habits.
- Helped students identify and build strengths to transfer abilities across domains, develop individual plans for academic support, and foster growth of affective skills.

TEACHING

University of Hawai'i at Mānoa, Department of Economics (Instructor)

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| 1. <i>ECON 130 Principles of Microeconomics</i> | Spring 2019, Spring 2020, Fall 2022 |
| 2. <i>ECON 131 Principles of Macroeconomics</i> | Summer 2021 |
| 3. <i>ECON 256 Data Analysis and Visualization</i> | Summer 2022 |
| 4. <i>ECON 300 Intermediate Macroeconomics</i> | Summer 2019, Summer 2020 |

University of Hawai‘i at Mānoa, Department of Economics (Teaching Assistant)

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|---|---|
| 1. <i>ECON 130 Principles of Microeconomics</i> | Fall 2016, Spring 2017, Fall 2018,
Spring 2019 |
| 2. <i>ECON 425 Introduction to Econometrics</i> | Spring 2019 |
| 3. <i>ECON 629 Econometrics II (Grader)</i> | Fall 2022 |

AWARDS AND ACHIEVEMENTS

Burnham O. Campbell Scholarship	2022
<i>University of Hawai‘i at Mānoa, Department of Economics</i>	
Graduate Assistantship	2016 - Present
<i>University of Hawai‘i at Mānoa, Department of Economics</i>	
Frances Davis Graduate Student Teaching Nomination	2016 - 2019
<i>University of Hawai‘i at Mānoa, Department of Economics</i>	
Phi Upsilon Omicron Officer	2012 - 2015
<i>University of Hawai‘i at Mānoa, College of Tropical and Agricultural Resources</i>	
Golden Key Member	2012 - 2015
<i>University of Hawai‘i at Mānoa, College of Tropical and Agricultural Resources</i>	
University of Hawai‘i at Manoa Band Scholarship	2010 - 2016
<i>University of Hawai‘i at Mānoa, Department of Music</i>	

PRESENTATIONS and CONFERENCES

2022

1. “Does Smoking Affect Wages?”. *Workshop on the Economics of Risky Behavior, Honolulu, Hawai‘i, July 9th, 2022 (Discussant)* (with Gregor Pfeifer).
2. “Who Did the ACA Medicaid Expansion Impact? Using Linear Discriminant Analysis to Estimate the Probability of Being a Complier”. *University of Hawai‘i at Mānoa Applied Microeconomics Workshop, Honolulu, Hawai‘i, November 29th, 2022.*
1. “Who Did the ACA Medicaid Expansion Impact? Using Linear Discriminant Analysis to Estimate the Probability of Being a Complier”. *Hawai‘i Economic Association Graduate Student Showcase, Honolulu, Hawai‘i, TBD.*

2021

2. “Laying Down the Welcome Mat: Measuring the Impacts of the Medicaid Expansion for Children Previously Eligible for Medicaid”. *University of Hawai‘i at Mānoa Applied Microeconomics Workshop, Honolulu, Hawai‘i, October 12th, 2021.*
3. “Laying Down the Welcome Mat: Measuring the Impacts of the Medicaid Expansion for Children Previously Eligible for Medicaid”. *Hawai‘i Economic Association Graduate Student Showcase, Honolulu, Hawai‘i, November 4th, 2021.*
4. “Who Did the ACA Medicaid Expansion Impact? Using Linear Discriminant Analysis to Estimate the Probability of Being a Complier”. *University of Hawai‘i at Mānoa Applied Microeconomics Workshop, Honolulu, Hawai‘i, November 16th, 2021.*

2020

1. “Autism Supports See Through My Eyes”. *Special Parents Information Network Conference, Honolulu, Hawai‘i, October 17th, 2021* (with Alysha Kim).

2019

1. “Laying Down the Welcome Mat: Measuring the Impacts of the Medicaid Expansion for Children Previously Eligible for Medicaid”. *University of Hawai‘i at Mānoa Applied Microeconomics Workshop, Honolulu, Hawai‘i, March 5th, 2019*.
2. “A Horse of Different Color: Strategies to Support Students with Autism Focusing on Motivation”. *Special Parents Information Network Conference, Honolulu, Hawai‘i, April 13th, 2019* (with Ann N. Garfinkle).

2018

1. “Mindful Meditation and Communication Strategies”. *Special Parents Information Network Conference, Honolulu, Hawai‘i, April 21st, 2018*.

2017

2. Keynote Address. *Special Parents Information Network Conference, Honolulu, Hawai‘i, April 22nd, 2017*.

COMPUTER SKILLS

Operating Systems	<i>Microsoft Windows OS, Mac OS</i>
Programming Languages	<i>R, Python, SQLite, HTML, MATLAB</i>
Software Experience	<i>Stata, RStudio, Microsoft PowerBI</i>
Media/Design	<i>LaTeX, Adobe Illustrator, Microsoft PowerPoint</i>

BACKGROUND

Citizenship	<i>USA</i>
Languages	<i>English (Native), Japanese (Intermediate)</i>

REFERENCES

Prof. Timothy Halliday	Prof. Victoria Fan	Prof. Sang-Hyop Lee
Department of Economics	Center on Aging	Department of Economics
University of Hawai‘i	University of Hawai‘i	University of Hawai‘i
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