

MUHAMMAD TALAL KHAN

Honolulu, HI

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Education

University of Hawai'i at Mānoa

Ph.D. in Finance

Honolulu, HI

Aug. 2024 – Present

M.A. in Economics

Aug. 2021 – May 2023

Coe College

B.A. in Economics and Computer Science (Cum Laude)

Cedar Rapids, IA

Aug. 2017 – May 2021

Publications

- Sea Level Rise Impacts on Residential Real Estate Value in Hawai'i
Muhammad Talal Khan, Nori Tarui, Conrad Newfield, Makena Coffman
Climatic Change, 2025.
- Hawai'i Greenhouse Gas Emissions Report for 2005, 2018, and 2019
ICF; **University of Hawai'i Economic Research Organization**
Hawai'i State Department of Health, Clean Air Branch, 2023

Working Papers

- Rainfall, Fire Risk, and Housing Prices in Hawai'i
Muhammad Talal Khan, Nori Tarui, Makena Coffman, Peter Fuleky
Under Review at Real Estate Economics
- Teaching Strategies and Key Issues in American Indian and Alaskan Native Education
Muhammad Talal Khan, Saki Ikoma
Under Review at Journal of Computational Science

Work Experience

University of Hawai'i Economic Research Organization

Honolulu, HI

Graduate Research Assistant

Aug. 2022 – Aug. 2024

- Conducted hedonic analysis utilizing real estate transaction data to quantify the impact of sea level rise on the value of coastal properties in Hawai'i, providing insights for property owners and policymakers.
- Built scenario-based emissions projections for Hawai'i State to track net-zero trajectory, supporting development of impactful climate mitigation policies.
- Analyzed post-COVID transportation trends and EV infrastructure for Honolulu County; provided data-driven recommendations on bus electrification and long-term development.

American Institutes for Research

Arlington, VA

Doctoral Research Intern

Jun. 2023 – Aug. 2023

- Analyzed academic and green space data to explore correlations between access to outdoor areas and student test performance.
- Performed unsupervised machine learning structural topic modeling (STM) techniques for thematic analysis of teacher survey responses regarding education strategies for American Indian and Alaska Native students.

Aegon Asset Management

Cedar Rapids, IA
Jan. 2020 – Jan. 2021

- Application Support Analyst Intern*
- Generated comprehensive monthly reporting on assets under management, service requests, portfolios, and key metrics, providing valuable insights to management.
 - Collaborated with the Mortgage Loan group to effectively allocate, modify, and fund loans utilizing the Aladdin system, resulting in efficient loan processing.
 - Loaded SMF, FX rates, trades, and cash messages into State Street PAM to maintain data integrity and participated in internal audits.

Vendor Management Intern

Jan. 2019 – Dec. 2019

- Negotiated 15% contract renewal price hike down to 5%, saving \$4,000 in costs.
- Implemented procure-to-pay system in SAP Ariba, improving efficiency and generating cost savings.
- Conducted vendor diversity research to ensure ESG compliance and performed health checks on Tier 1 suppliers to mitigate vendor failure risks.

Coe College

Cedar Rapids, IA
Peer Advisor and Tutor
Jan. 2018 – May 2021

- Provided over 300+ hours of academic coaching in Object Oriented Programming, Discrete Mathematics, Microeconomics, Macroeconomics, and Econometrics.

Teaching Experience

Shidler College of Business, University of Hawai'i at Mānoa

Honolulu, HI
Graduate Assistant
Aug. 2024 – Present

- Instructor:** Economic & Financial Environment of Global Business.
- Teaching Assistant:** International Business Finance, and Japanese Financial Management.

Department of Economics, University of Hawai'i at Mānoa

Honolulu, HI
Graduate Assistant
Aug. 2021 – May. 2022

- Teaching Assistant:** Principles of Macroeconomics, Intermediate Microeconomics, Intermediate Macroeconomics, and Trade Policy and Globalization

Honors and Awards

- Student Affiliate, East-West Center (2021–Present)
- Burnham O. Campbell Fellowship Fund — \$2,000 (2023), University of Hawai'i at Mānoa
- Jagdish P. Sharma Scholarship for South Asian Studies — \$5,000 (2023–2024), University of Hawai'i at Mānoa
- Spellman Optimum Optimorum PhD in Economic Sciences — \$500 (2020), Coe College
- Spellman Research Scholar — \$3,000 Fellowship (2020), Coe College
- SCRIMP Fellow — \$2,000 Fellowship (2019), Coe College
- Global Leadership Scholar — Four-year full-tuition merit scholarship (2016–2020), Coe College
- Certificate of Appreciation for exemplary volunteer service (2016), awarded by President Barack Obama
- Kennedy-Lugar YES Scholar — Fully funded U.S. Department of State exchange program (2014–2015)

Skills

Research: Causal Inference, Textual Analysis, Time Series Analysis

Tools: R, Python, Stata, LaTeX, ArcGIS

Languages: Urdu(Native), English(Native)