

TOMOKI OKUNO

Department of Biostatistics, UCLA, Los Angeles, CA 90095

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EDUCATION

University of California, Los Angeles

PhD Biostatistics, Department of Biostatistics, UCLA Fielding School of Public Health

Los Angeles, CA

2023 – Expected 2027

University of California, Los Angeles

MS Biostatistics, Department of Biostatistics, UCLA Fielding School of Public Health

Los Angeles, CA

2021 – 2023

- GPA: 4.0/4.0
- Master's thesis: "Association of both short-term and long-term glycemic variability with the development of microalbuminuria in the ACCORD trial"

Kyoto University

Master of Informatics, Department of Applied Analysis and Complex Dynamical Systems

Kyoto, Japan

2011 – 2013

- Master's thesis: "Simulation of the Structural Color of Morpho Butterflies with Periodic Fast Multipole Methods"

Kyoto University

Bachelor of Engineering, Faculty of Engineering

Kyoto, Japan

2007 – 2011

- Thesis: "Shape Sensitivity Analysis with FMM in the Periodic Problems for Maxwell's Equation"

AWARDS AND HONORS

- **Departmental Award** for full-funding for graduate studies at UCLA for 2023–2026
- **Wilshire Fellowship** in Geriatric Medicine at UCLA for 2022–2023 with a grant of \$5,500

PUBLICATIONS

- **T Okuno**, A Vansomphone, E Zhang, H Zhou, J Koska, P Reaven, JJ Zhou; Association of both short-term and long-term glycemic variability with the development of microalbuminuria in the ACCORD trial. *Diabetes* 2023; db230374.

RESEARCH EXPERIENCE

Department of Biostatistics at UCLA

Graduate Student Researcher, Advisor: Dr. Jin J Zhou and Dr. Hua Zhou

Los Angeles, CA

March 2022 – Present

- Investigate the association of both short-term and long-term glycemic variability with the development of microalbuminuria for type 2 diabetes patients using the Cox proportional hazard model
- Conduct differential expression analysis with patients' genetic data to predict dysfunction after lung transplantation using Random Forest with time-varying covariates
- Examine the relationship and consistency between data extracted from the electronic health record in the US Veterans Affairs and continuous glucose monitoring data from Dexcom

TEACHING EXPERIENCE

Department of Biostatistics at UCLA

Los Angeles, CA

Teaching Assistant

- Biostat 203A: Introduction to Data Management and Statistical Computing (2022 Winter)
- Biostat 216: Mathematical Methods for Biostatistics (2023 Fall)

PROFESSIONAL EXPERIENCE

Medley Inc. (TSE-Mothers)

Tokyo, Japan

Business Development and Promotion Specialist, Business Enablement Group

July 2019 – August 2021

Freelance

Tokyo, Japan

Consultant

May 2018 – June 2019

- Secured new outsourcing contracts with an e-commerce company and a tax accounting firm
- Managed an e-commerce database of 50,000 stores and helped to facilitate a large-scale system migration; determined adjusted costs for operating the new system
- Designed an asset management simulator to optimize asset allocation based on client information; helped to significantly reduce company operation costs and increase sales efficiency by automating data input, analysis, and output

Japan Football Association

Tokyo, Japan

Japan National Football Team Marketer

May 2016 – April 2018

- Segmented fans through cluster analysis (k-means method) to gain a deeper understanding of their needs and wants; drove strategic approaches that set clear targets and objectives to promote their experiences

Accenture Japan Ltd.

Tokyo, Japan

Strategy Consultant

July 2013 – April 2016

- Engaged in consulting projects for more than ten organizations, including government offices and major retailers

SKILLS

- **Statistical Skills:** Survival analysis, Longitudinal analysis, Random Forest, Multivariate linear models, Graphical models, Bayesian models
- **Computing Skills:** R, Julia, SAS, STATA, Google BigQuery, R Shiny, R Markdown, LaTeX
- **Ability:** Problem-solving, Critical thinking, Project management, Accuracy in work