### Tomoki Okuno

Department of Biostatistics, UCLA, Los Angeles, CA 90095

#### EDUCATION

#### University of California, Los Angeles

Los Angeles, CA

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

2023 - Expected 2027

#### University of California, Los Angeles

Los Angeles, CA

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

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** 

Kyoto, Japan

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

2011 - 2013

• GPA: 3.2/4.0

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

#### **Kvoto University**

Kyoto, Japan

**Bachelor of Engineering,** Faculty of Engineering

2007 - 2011

• GPA: 3.4/4.0

• 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

Los Angeles, CA

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

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

- Acquire new profit sources through collaboration with outside companies; collaborate internally to improve company processes and procedures
- Conducted research into medical products for clinics; spearheaded sales partnerships with medical product manufacturers for cross-selling initiative
- Launched inter-departmental projects for improving operations; facilitated clarification of departmental objectives and challenges to promote greater efficiency and risk reduction
- Led a 10-member team in designing an integrated business process including sales, contracting, billing, operational customer support and sales management techniques for a web-based medical questionnaire service (a relatively uncommon service); resulted in an acquisition of over 200 users in six months, a significant improvement since the service was launched in January 2018
- Actively engaging in the creation and development of a scheme and the conclusion of a contract to introduce telemedicine in more remote areas; working closely with the government of Okinawa in a demonstrative experiment providing free services to Yonaguni Island with a population of 1700 and one medical institution

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 Japan National Football Team Marketer

Tokyo, Japan

May 2016 - April 2018

• Developed a marketing strategy for the JFA; coordinated with ad agencies and JFA sponsors

- Achieved a greater than 10% YOY increase in the fan base through a marketing program targeting fan engagement; offered new experience-based content appealing to fans' empathy and attachment to the Japan National Team
- 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
- Planned and executed programming and marketing to enhance fan engagement with the 2018 FIFA World Cup, securing ten sponsors and twice the budget compared to the previous World Cup

# Accenture Japan Ltd. Strategy Consultant

Tokyo, Japan July 2013 – April 2016

- Engaged in consulting projects for more than ten organizations, including government offices and major retailers
- Analyzed work volume and expenses for operations conducted by municipalities nationwide for the Ministry of Health, Labour and Welfare; secured a 20% increase in the baseline compensation for these operations
- Designed a simulator that predicts customer unit price and sales volume; analyzed data on store locations of a major retailer using multiple regression analysis
- Studied design of a new visa category for the Ministry of Foreign Affairs to promote longer stays by wealthy visitors to Japan; analyzed similar systems in Australia and New Zealand
- Assisted a major retailer in doubling their digital promotions budget by designing an improved model for estimating marketing ROI

#### 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