David WH Dai MSc, HBSc

Personal and Contact Information

David (Wei Hao) Dai
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Education

University of Toronto, Toronto, Canada — 09/2014 – 06/2015
Master of Science (Biostatistics) — (GPA 4.00/4.00)

University of Toronto, Toronto, Canada — 09/2010 – 05/2014
Honours Bachelor of Science (Pathobiology) with High Distinction — (GPA 3.75/4.00)

Technical Skills

Programming and Statistical Languages: R, SAS, Python
Statistical Proficiencies: Regression modelling (linear and non-linear regression, GLM, survival analysis), design and analysis of clinical trials (A/B tests)
Tools: RStudio, RMarkdown, tidyverse, ggplot2, LaTeX, SQL

Current & Recent Experience

Statistician - Clinical Trials Unit
St. Michael's Hospital - Applied Health Research Center. Toronto, Canada. 10/2017 – on-going

- Analyzed and consulted on the design and execution of international, multi-center clinical trials
- Provided statistical consultation and performed statistical analysis to external clients on various study designs, including clinical trials, randomized experiments, and observational data
- Created internal automatized performance & business process reports for stakeholders to bring in additional operational funding for unit

Statistician - Observational, Epidemiological and Qualitative Research Unit
St. Michael's Hospital - Applied Health Research Center. Toronto, Canada. 07/2016 – 10/2017

- Primary statistician for TargetKids! collaboration, a GTA-wide registry of healthy children
- Used SAS and R statistical softwares for data management, data manipulation, data merging, macro writing, and statistical analysis of data
- Mentored and supervised trainees and graduate students within the TargetKids! collaboration
- Provided statistical consultation and performed statistical analysis for internal and external publications

Statistical Analyst
St. Joseph's Healthcare Hamilton, Hamilton, Canada. 06/2015 – 07/2016

- Used SAS and R statistical softwares for data manipulation, data merging, macro writing, and statistical analysis of data
- Provided central statistical consulting and analyses across all four study sites in Canada
- Performed statistical analysis and prepared results for internal and external publications

Independent Statistical Consultant, Toronto, ON. Canada.
University of Toronto - Laboratory Medicine & Pathobiology 01/2016 – On-going

- Performed statistical analysis and prepared manuscript for publication as primary statistician

Cogniciti Inc. - Baycrest Research, MaRS Discovery District 05/2016 – 07/2016

- Performed statistical analysis, generated internal reports for scientific research group and aided business operations decisions

Peer-Reviewed Publications

Tran M, Lefebvre D, Dharma C, Dai D, *et al.* "Predicting the atopic march: Results from the Canadian Healthy Infant Longitudinal Development Study", *The Journal of Allergy and Clinical Immunology.* 141(2). Feb 2018.

Wong P, Anderson L, Dai D, *et al.* "The Association of Breastfeeding Duration and Early Childhood Cardiometabolic Risk", *The Journal of Pediatrics.* 192. Jan 2018.

Albaum J, Carsley S, Chen Y, Dai D, *et al.* "Persistent High Non-High-Densitiy Lipoprotein Cholesterol in Early Childhood: A Latent Class Growth Model Analysis *The Journal of Pediatrics.* 191. Dec 2017.

Azad M, Vehling L, Lu Z, Dai D, *et al.* "Breastfeeding, maternal asthma and wheezing in the first year of life: A longitudinal birth cohort study", *European Respiratory Journal.* 49(5). May 2017.

Tran M, Lefebvre D, Dai D, *et al.* "Timing of food introduction and development of food sensitization in a prospective birth cohort", *Pediatric Allergy and Immunology.* 28(5). May 2017.

Simons E, Lefebvre D, Dai D, *et al.* "Peanut Introduction, Sensitization and Allergy Development in an Unselected Canadian Cohort", *Journal of Allergy and Clinical Immunology.* 139(2). Feb 2017.

Sears M, Tran M, Lefebvre D, Dai D, *et al.* "Specific parental atopy, sex of child and timing of introduction of 'allergenic' foods", *European Respiratory Journal.* 48(suppl 60). Sept 2016.