

# Thomas Uchiyama Aguilar

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CONTACT INFORMATION Fort Greene taguilar87@gmail.com  
Brooklyn, NY

## OVERVIEW

- Data @Vericred, formerly @UCSF and @earthinstitute. Working on automation and analytics to improve the healthcare system through data, technology, and transparency. Fueled by coffee.
- Programming: R, git, Postgresql, Ruby on Rails, JavaScript (React, Redux), Heroku, S3
- Project Management: Jira, PivotalTracker
- Experience with: SAS, STATA, WinBUGS, Jags, HTML, CSS, Python

EDUCATION **Columbia University**, New York, NY

M.S. Biostatistics, May 2012

**University of California, Santa Cruz**, Santa Cruz, CA

B.A. Mathematics and Economics (Double Major), Dec. 2009

WORK EXPERIENCE **Director of Data Operations** September 2018 to Present  
**Vericred, Inc.**, New York, NY

- Oversee data operations for Vericred's Medical and Ancillary Data Products
- Scrum-master and facilitator for team of 10 data coordinators and admins

**Data Engineer** February 2016 to September 2018  
**Vericred, Inc.**, New York, NY

- Writing and maintaining internal codebase for data ingestion and ETL pipeline to expand data corpus.
- Analyzing and visualizing data to provide greater transparency into the health insurance market.

**Programmer Analyst II** November 2014 to February 2016  
**University of California, San Francisco**, San Francisco, CA

- Lead data analyst and programmer for [CAHealthcareCompare.org](http://CAHealthcareCompare.org), a price and quality transparency tool for health care in California.
- Statistical analysis for clinical and policy research using large commercial/medicare claims and EHR data
- Writing and contributing to manuscripts and technical documents.
- Provide analytical and programming support and training to address needs of internal and external researchers

**Analyst**

June 2014 to November 2014

**OnPoint Analytics**, Emeryville, CA

- Applying statistical and econometric methods to financial and economic data in R and STATA
- Managing large proprietary datasets using SAS and STATA in linux environment
- Preparing expert reports, trial exhibits and other presentation materials for the court in ongoing legal proceedings

**Data Analyst — Manager**

March 2012 to June 2014

**Earth Institute, Columbia University**, New York, NY

- Providing statistical expertise for study design and sample size calculations, data analysis, and academic publications
- Performing regression analysis, Bayesian hierarchical modeling and predictive analysis, factor analysis and structural equation modeling, multiple imputation of missing data in R, WinBUGS and STATA
- Building data infrastructure for remote data collection and automate daily and weekly reports of ongoing survey and test results for quality assurance using SQL

**Statistical Consultant**

July 2013 to March 2014

Columbia University

- Simulating egocentric network data using Exponential Random Graph Models in R to test sensitivity of measurement error, analyzing results and comparing them to observed network data
- Building Bayesian hierarchical models in R/WinBUGS to investigate the influence of violence exposure on PTSD using complex-survey data of 900 Rwandan children within orphanages who experienced the 1994 genocide
- Providing ad-hoc support for statistical analysis and graphics, study design and manuscript writing

**Research Assistant**

May 2011 to June 2012

Department of Population and Family Health, Columbia University

- Developing algorithm to decompose the trends of Malaria prevention and treatment among children in Sub-Saharan countries working with clustered survey data and incorporating bootstrap sampling weights to produce unbiased confidence intervals of non-linear functions
- Performing survival analysis of national insurance uptake of pregnant women in Ghana to determine the effects of the location healthcare and antenatal services were provided.

**RESEARCH  
PUBLICATIONS**

1. Dejong C\*, **Aguilar T\***, Lin GA, Tseng CW, Boscardin J, Dudley RA. Pharmaceutical Industry-Sponsored Meals and Physician Prescribing Patterns for Medicare Patients. *JAMA Internal Medicine*, (June 2016). doi:10.1001/jamainternmed.2016.2765

2. Sing DC, Barry JJ, **Aguilar T**, Theologis AA, Patterson JT, Tay B, Vail TP, Hansen EN. Prior Lumbar Spinal Arthrodesis Increases Risk of Prosthetic-Related Complication in Total Hip Arthroplasty. *The Journal of Arthroplasty*, (March 2016). doi:10.1016/j.arth.2016.02.069
3. Frimpong JA, Helleringer S, Awoonor-Williams JK, **Aguilar T**, Phillips JF, Yeji F. The complex association of health insurance and maternal health services in the context of a premium exemption for pregnant women: a case study in Northern Ghana. *Health Policy and Management*, (December 2014)

\* co-first authors