

# DANIEL SURYAKUSUMA

PHONE: (909) 569 - 5177

EMAIL: [daniel@dsury.com](mailto:daniel@dsury.com)

## ACTUARIAL EXAMS

EXAM MAS-I:	Sitting May 2022
EXAM 5:	Taken Oct 2021
EXAM 3/IFM:	Passed Jul 2020
EXAM 2/FM:	Passed Oct 2017
EXAM 1/P:	Passed Jul 2017

## WORK EXPERIENCE

JUL 2021 - Current ORANGE COUNTY, CA	<b>MERCURY INSURANCE GROUP</b> <i>Actuarial Analyst II</i> <ul style="list-style-type: none"><li>•Performed deep-dive analyses as AZ State Actuary, leveraging various reserving techniques and analyzing internal and competitor loss trends for rate indications. Collaborate with PM, R&amp;D, Claims, and Underwriting to drive profitable growth.</li><li>•Designed new country-wide Personal Umbrella product introducing innovative segmentation. Built new tools to compute rating factors, off-balance and dislocation, triangles and exhibits for CA rate/rule/form filing. Teamed up with IT, Marketing, and UW for database and UI/UX design to ensure successful book conversion into new IT system.</li><li>•Programmed automated R script to scrape, compile, and organize competitor product filings. Deliver direct, accurate, and timely industry information to executive and marketing teams on key changes to competitor product rating plans or underwriting risk appetite.</li></ul>
MAY 2020 - JUN 2021 ORANGE COUNTY, CA	<b>MERCURY INSURANCE GROUP</b> <i>Product Analyst - State Product Management</i> <ul style="list-style-type: none"><li>•Constructed a growth optimization predictive model, isolating independent agency locations with greatest growth and cross-sell opportunities within auto, home, and umbrella. Presented analysis to c-suite officers, marketing, and key stakeholders. Partnered with Marketing to integrate model and process into extensive agency vetting process.</li><li>•Programmed large-scale quote dislocation tool in R to measure projected rate competitiveness to market. Co-authored Mercury's <a href="#">CA PPA Class Plan filing</a>. Presented analysis and projected changes to Mercury's largest book to executive team for buy-in.</li><li>•Bootstrapped KPI reporting for successful launch of MercuryGO UBI telematics program. Identified early enhancements and equipped Mercury's outbound call center with automated daily reporting to significantly enhance customer experience, improving app installation rate +30%.</li></ul>

## EDUCATION

MAY 2020	<b>University of California, Berkeley</b> B.A. Applied Mathematics (Statistics) Major GPA: 3.46/4.00
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## TECHNICAL PROJECTS

### [CAL ACTUARIAL LEAGUE 2019 CASE COMPETITION: P&C, General Analytics](#)

- Presented end-to-end business solution, driving and interpreting a Tweedie GLM to classify driver risk to optimize an insurer's risk portfolio.

### [INSURING AGAINST GOING VIRAL: Life Expectancy on Spotify Top Charts](#)

- Quantified interaction effect between fixed subscription premiums and royalty claims payments for viral songs. Web-scraped data and built query-able PostgreSQL database to infer updated trends for consumer behavior.

### [LIVETYPE TEX LIBRARY \(GitHub Atom, Open-Source\)](#)

- Built customizable .cson library for code completion and error correction, enabling real-time live typesetting of technical lecture notes. Volunteered under UC Berkeley Statistics professor Jim Pitman as [scribe for Stochastic Processes](#).

## TECHNICAL SKILLS

SKILLS:	Predictive Modeling, Actuarial Ratemaking & Reserving
PROGRAMMING:	R, Excel, SQL, Python, LaTeX, HTML/CS/JS