

# DOMINIC ARCONA

Manhattan Beach, CA

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## EDUCATION

<b>University of Southern California</b> , Los Angeles, CA. <i>PhD Candidate, Applied Mathematics; M.S., Statistics.</i>	<b>Aug 2021 - Present</b> GPA: 3.81/4.00
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- Dissertation: Representation theory and cycle statistics for random walks on the symmetric group.
- Relevant Coursework: Statistical Foundations of Machine Learning, Time Series Analysis.

<b>Dartmouth College</b> , Hanover, NH. <i>B.A., Mathematics and Chemistry Double Major, Engineering Sciences Minor.</i>	<b>Jun 2019</b> GPA: 3.75/4.00
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## RELEVANT EXPERIENCE

<b>University of Southern California</b> , Los Angeles, CA. <i>Graduate Teaching Assistant</i>	<b>Aug 2021 - Present</b>
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- Communicated mathematical concepts clearly in twice-weekly discussion sections and office hours for undergraduate courses in calculus, probability, statistics, and linear algebra.
- Collaborated with course instructors to coordinate material covered, grade assignments and exams, and maintain consistent instructional standards across sections.
- Recognized by the USC Math Department for outstanding teaching with Dennis Ray Estes prize.

<b>Voyatek</b> , Remote. <i>Analytics Consultant II</i>	<b>Apr 2020 - May 2024</b>
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- Generated \$1M monthly in voluntary tax remittance for state DOR client through quarterly mail correspondence campaigns. Team received a company-wide Outcome Award for this achievement.
- Created proprietary data source of ‘Remote Seller’ leads using CRISP-DM and web scraping techniques.
- Applied classification and regression models to large datasets in Python to effectively prioritize leads.
- Developed client-friendly dashboard highlighting key metrics for actionable adjustments to the solution.

<b>AQN Strategies</b> , McLean, VA. <i>Consultant</i>	<b>Jul 2019 - Mar 2020</b>
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- Advised a national bank on pricing and fraud risk management strategies for SME loan product including A/B testing strategy for evaluation within 90 days of product launch.
- Communicated work status effectively to team members and clients.

<b>Edgeworth Economics</b> , Washington, D.C. <i>Economic Consultant Intern</i>	<b>Summer 2016, Fall 2017</b>
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- Performed analyses on large data sets using SAS, Stata, and Excel.
- Collaborated with consultants, partners, and CEO on multiple case teams daily.

## LEADERSHIP & SERVICE

<b>Graduate Student Combinatorics Conference (GSCC)</b> , Los Angeles, CA. <i>Organizer</i>	<b>Mar 2025</b>
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- Organized and coordinated multi-day academic conference with 80+ attendees at USC.
- Managed scheduling, speaker invitations, and logistics for researchers across institutions.
- Secured grant funding from a variety of sources to support attendees traveling to Los Angeles.

<b>Math Graduate Student Association</b> , Los Angeles, CA. <i>Ski Chairman</i>	<b>Aug 2023 - Present</b>
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- Plan and facilitate ski outings for Math grad students and friends each winter.
- Communicate with IKON liaison to secure perks and discounts for pass holders.

## HONORS & AWARDS

**Dennis Ray Estes Teaching Award:** Recognized by the USC Math Department for outstanding teaching.

**Voyatek Outcome Award:** ‘Remote Seller’ solution for large state DOR client received company-wide recognition.

**American Chemical Society Scholar:** Selected for 4-year undergraduate scholarship for minority students studying Chemistry.

**E. E. Just Scholar:** Dartmouth scholars’ program for minority students in STEM.

**Hispanic Scholarship Fund Scholarship:** 2015-16 and 2017-18 recipient.

## SKILLS & INTERESTS

**General Skills:** Statistical analysis, data visualization, workflow management, technical communication, business development.

**Programming Experience:** Python (PyTorch, Pandas, Numpy), R, SQL, MATLAB, Javascript, Stata, C, SAS, Excel VBA.

**Other Software/Tools:** Marklogic, NiFi, SQL and NoSQL Databases, AWS, Git, MS Azure, VSCode, Jupyter, Conda.