

arnoldseong

statistician & data scientist in training

contact

🏠 25 Catania
Newport Coast, CA 92657
✉ akseong@uci.edu
☎ 360.789.4305

programming

R
Python

interests

functional regression
graphical models
spatio-temporal stats
p >> n problems
machine learning
computer vision
neuroscience
climate modeling
poetry & language

publications & talks

"Data Integration in
Spatio-Temporal
Models with
Multi-Resolution
Approximation Basis"
JSM 2020 Invited Talk

"Sonnet for the Tiny
Neutron"
Montreal Int'l Poetry
Prize shortlist

"Film Noir"
Poetry Northwest

"Transplantation"
Best New Poets 2009

"Audience Awareness"
textbook chapter,
Knowing Language

profile

PhD student in Statistics; former poet & college English instructor. Research in Bayesian semi-parametric models, functional regression, variable selection, graphical models, and spatio-temporal modeling, with applications in neuroimaging and environmental science. Experience consulting for marketing agency on multi-million dollar accounts.

skills

- EDA & Data Visualization
- Functional regression
- Spatio-temporal statistical models
- Variable selection & model comparison
- Semi- & non-parametric Bayes
- Effective oral & written communication

education

2017-current **PhD student** in Statistics (**MS** awarded June 2019) **UC Irvine; Irvine, CA**
Research: **1)** Bayesian variable selection in varying-coefficient models, with application to neuroimaging data; **2)** Scalable methods for estimating dynamic functional connectivity (graphical models for changing brain networks) from resting-state fMRI; **3)** Data integration for spatio-temporal data.

2005–2007 **MFA** in Creative Writing, Poetry **Univ. of Washington; Seattle, WA**
Thesis: "The Anatomy of Speech"

2000–2004 **BA** in English Literature **Cornell University; Ithaca, NY**
Dean's Scholar Research Grant: "Cellular Automata and Literary Production"

select employment

2019 **Statistical Consultant**, EXACTA Media **Irvine, CA**
Assessed omni-channel marketing strategy via multivariate linear models and semi-parametric methods. Identified redundant efforts worth potentially >\$60k/mo (15%) in savings; model predictions validated in following months.

2019-current **Graduate Student Researcher**, Statistics Department **UC Irvine; Irvine, CA**
Developing Bayesian semi-parametric methods for spatio-temporal data, with focus on brain (electrocorticogram) data. Engaged for forthcoming literature review with advisor on Bayesian methods for spatial data.

2017-2019 **Teaching Assistant**, Statistics Department **UC Irvine; Irvine, CA**
TA for Stats 67: Intro Stats for CS Students & Stats 7: Intro Stats.

2012-2017 **Lab Coordinator**, Language & Culture Program **Soka University; Aliso Viejo, CA**
Oversaw operations of language lab; administrator for cloud-based services.

Lecturer, Department of Academic English **UC Irvine; Irvine, CA**
Taught various writing courses; developed new course for Gen 1.5 students.

2011-2012 **IT Liaison & Retention Specialist**, Student Affairs **Clark College; Vancouver, WA**
Coordinated 8-person team in grant-funded development of online reporting system. System now used in community colleges across WA state.

2007-2010 **Adjunct Faculty**, English Department **University of Washington; Seattle, WA**
Taught intro & intermediate Creative Writing. Nominated for teaching awards.