## **Krisztina Dearborn**

Denver, CO

#### **EDUCATION**

University of Colorado Boulder	Boulder, CO
Ph.D., Mathematics M.S., Applied Mathematics	Expected 2020 2015 – 2018
Central Connecticut State University	New Britain, CT
Post-Baccalaureate Studies, Mathematics B.S., Mathematics and Physics	2014 - 2015 2010 - 2014
EXPERIENCE	
University of Colorado Boulder	
<ul> <li>Statistical Collaborator</li> <li>Laboratory for Interdisciplinary Statistical Analysis</li> <li>Interact with clients ranging from university researchers in a variety of disciplines to local businesses.</li> <li>Work as a part of a collaborative group to understand the policy or research question of the client and how statistical analysis can provide them with data driven solutions or results.</li> </ul>	2018-Present
<ul> <li>Researcher Unbiased Estimation <ul> <li>Apply mathematical statistics to optimize estimation for Markov models with applications in economics, financial markets, and infrastructure deterioration.</li> <li>Use Mathematica to simulate and compare estimates in a Markov model.</li> </ul></li></ul>	2017-Present
<ul> <li>Identifiable Elicitation Complexity</li> <li>Used analysis to prove a result in mathematical statistics with applications in economics.</li> <li>On the indirect elicitability of the mode and modal interval; Accepted for publication in the Annals of the Institute of Statistical Mathematics</li> </ul>	2017
<ul> <li>Behavior of Random Polynomials</li> <li>Proved result on how behavior of random polynomials will evolve as the factors grow.</li> <li>Use Sage to simulate behavior of roots and critical values of random polynomials.</li> </ul>	2016
<ul> <li>Instructor</li> <li>Courses: Statistics, Calculus with Systems and Modeling, Single-variable Calculus, and Algebra</li> <li>Focused on creating collaborative class environment using group work to encourage students to engage with problems in a productive exchange of ideas.</li> </ul>	2015 – Present

# SKILLS

### **Programming and Software**

R, Microsoft Excel, Mathematica, Sage, HTML

### **Modeling and Analysis**

- Statistical methods including statistical tests, general linear models, classification, ridge regression, and LASSO.
- Time series analysis including forecasting with ARMA and ARIMA models as well as signal processing and filtration.
- Stochastic processes including Markov chains and Geometric Brownian motion.

### LEADERSHIP

# University of Colorado Boulder

Lead Teaching Assistant, Graduate Teacher Program	2018-Present
Vice President, Association for Women in Mathematics - Boulder Chapter	2017-Present
Central Connecticut State University	
Team Captain, Women's Cross Country and Track and Field Teams	2013-2015
President, Physics Club	2012-2014
ACHIEVEMENTS	
University of Colorado Boulder	
W. J. Thron Mathematics Fellowship	2018
Central Connecticut State University	
President's Citation Award for Outstanding Community Engagement	2014
Coca-Cola Award for Highest Female Student-Athlete GPA	2014
John B. Bulman Distinguished Service Award	2013
Computer Science, Mathematics, and Physics Scholarship	2010-2014