

SAMAL ABDIKERIMOVA

+1 217 7512780 ◊ abdiker2@illinois.edu

EDUCATION

University of Illinois at Urbana-Champaign, USA

August 2016 - May 2021

PhD in Mathematics with a Concentration in

Actuarial Science and Risk Analytics

University of Alberta, Canada

September 2010 - December 2011

MSc in Applied Mathematics

ACTUARIAL EXAMS

Models of Life Contingencies, Construction and Evaluation of Actuarial Models, Probability, Models for Financial Economics, Financial Mathematics, sitting for Predictive Analytics exam in June 2020.

SKILLS

Language English(Fluent), Russian(Bilingual proficiency), Kazakh(Bilingual proficiency)

Software & Tools R, Python, L^AT_EX

COURSE AND RESEARCH PROJECTS

Peer-to-Peer multi-risk insurance and mutual-aid plan (manuscript submitted to journal)

Assessed and exploited the concept of peer-to-peer insurance in a systematic manner. Presented a first-of-its-kind insurance model to deal with multiple risks. Used convex optimization to find the unique and actuarially fair way of distributing money to participants of a heterogeneous group.

Graduate mentor to I-Risk lab students

Currently supervising 2 MSc and 1 undergraduate students with I-Risk lab project about peer-to-peer insurance and mutual aid plan. I maintain weekly meetings with them and assess their work/presentations.

Analysing house prices

Cleaned the data. Ran regression analysis to see how price of house is affected by several factors such as neighbourhood, year-built, etc. by using R. Visualised all results using Tableau.

ACADEMIC ACHIEVEMENTS

State scholarship(covered all expenses) to study abroad in August 2010

State Farm Doctoral Fellowship in Spring 2017

ONLINE COURSEWORK

Coursera

R Programming, R Programming Environment, Advanced R Programming

Coderbyte

Algorithmic tasks using Python

WORK EXPERIENCE

University of Illinois, Department of Mathematics

August 2016 - currently

Teaching assistant

- Taught a standalone class of 85 students for two terms. Created exams and homework problems.
- Conducted discussion sessions and office hours for statistic courses, graded exams.

Nazarbayev University, Department of Mathematics

June 2012 - July 2016

Instructor for Calculus and Actuarial courses

- Prepared and delivered daily presentations, created exam and homework problems.
- Participated in Math department course scheduling. Performed other related duties as assigned.