

Milica Čudina

ASSOCIATE PROFESSOR OF PRACTICE

Department of Mathematics, The University of Texas at Austin

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Education

Carnegie Mellon University, Department of Mathematical Sciences

Pittsburgh, Pennsylvania

PH.D. IN MATHEMATICS

August 2006

- Thesis advisors – Prof. S. E. Shreve and Prof. Kavita Ramanan

Columbia University, Statistics Department

New York, New York

M.A. IN STATISTICS

May 2002

University of Zagreb, Faculty of Mathematics

Zagreb, Croatia

GRADUATE STUDENT

Mar 2000 – Aug 2001

University of Zagreb, Faculty of Mathematics

Zagreb, Croatia

BACHELOR'S DEGREE IN MATHEMATICS

December 1999

- Thesis advisor – Prof. Z. Vondraček

Leipzig University, Naturwissenschaftlich-Theoretisches Zentrum

Leipzig, Germany

VISITING STUDENT

October 1998 - December 1998

Employment

The University of Texas at Austin, Department of Mathematics

Austin, Texas

ASSOCIATE PROFESSOR OF PRACTICE

September 2021 – present

The University of Texas at Austin, Department of Mathematics

Austin, Texas

ASSISTANT PROFESSOR OF PRACTICE

September 2018 – August 2021

The University of Texas at Austin, Department of Mathematics

Austin, Texas

CLINICAL ASSISTANT PROFESSOR

September 2011 – August 2018

The University of Texas at Austin, Department of Mathematics

Austin, Texas

LECTURER

September 2006 – August 2011

Teaching Experience

Department of Mathematics, The University of Texas at Austin

Austin, Texas

ASSISTANT PROFESSOR OF PRACTICE

September 2018 – present

- **Courses taught:** Introduction to Financial Mathematics for Actuaries, Financial Mathematics for Actuarial Applications, Applied Statistics, Probability Models with Actuarial Applications, Theory of Interest
- **Courses designed/re-designed:** Introduction to Financial Mathematics for Actuaries, Financial Mathematics for Actuarial Applications
- **Open Education Resources created:** Introduction to Financial Mathematics for Actuaries

Department of Mathematics, The University of Texas at Austin

Austin, Texas

CLINICAL ASSISTANT PROFESSOR

September 2011 – August 2018

- **Courses taught:** Introduction to Mathematical Statistics, Introduction to Financial Mathematics for Actuaries, Financial Mathematics for Actuarial Applications, Theory of Interest, Probability, Probability Models with Actuarial Applications, Stochastic Processes, Applied Statistics
- **Courses designed/re-designed:** Introduction to Financial Mathematics for Actuaries, Financial Mathematics for Actuarial Applications

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Austin, Texas

LECTURER

September 2006 – August 2011

- **Courses taught:** Differential Calculus, Actuarial Contingent Payments I and II, Financial Mathematics for Actuarial Applications, Theory of Interest, Probability, Probability Models with Actuarial Applications
- **Courses designed:** Financial Mathematics for Actuarial Applications

Carnegie Mellon University, Department of Mathematical Sciences

Pittsburgh, Pennsylvania

TEACHING ASSISTANT/INSTRUCTOR

January 2003 – September 2001

- **Lead recitations:** Concepts of Mathematics; Integration, Differential Equations, and Approximation
- **Instructor:** Concepts of Mathematics

Columbia University, Statistics Department

New York, New York

TEACHING ASSISTANT/INSTRUCTOR

August 2001 – December 2002

- **Lead recitations:** Introduction to Statistics; Statistical Inference
- **Instructor:** Introduction to Statistics

University of Zagreb, Faculty of Mathematics

Zagreb, Croatia

TEACHING ASSISTANT

March 2000 – July 2001

- **Lead recitations:** Measure Theory; Introduction to Probability and Statistics

University of Zagreb, Faculty of Mathematics

Zagreb, Croatia

UNDERGRADUATE STUDENT

1995 – 2000

- **Coach** for the Croatian National team for International Mathematical Olympiads

Honors and Awards

2022	The 'Instructor Learning Community Grant'	Center for Teaching and Learning, UT Austin	Austin, TX
2022	The 'Faculty Innovation Grant'	Center for Teaching and Learning, UT Austin	Austin, TX
2017	The 'John Durbin teaching award'	Department of Mathematics, UT Austin	Austin, TX
2014, 2010	The 'Clock award'	Services for Students with Disabilities, UT Austin	Austin, TX
2005	Best graduate student presentation award	Department of Mathematical Sciences, CMU	Pittsburgh, PA
2003	Faculty fellowship for graduate study	Carnegie Mellon University	Pittsburgh, PA
2001	Faculty fellowship for graduate study	Columbia University	New York, NY
1998	DAAD Scholarship by the German Government	Leipzig University	Leipzig, Germany
1997, 1998	Best Student Award	Faculty of Mathematics, University of Zagreb	Zagreb, Croatia
1998	Scholarship	Local government, City of Zagreb	Zagreb, Croatia
1997	Scholarship	Croatian Government	Zagreb, Croatia
1997	'Dean's Award' – awarded for the best original undergraduate paper	University of Zagreb	Zagreb, Croatia
1994-1995	2 times member of the Croatian International Mathematical Olympiad team		Zagreb, Croatia
1990-1995	4 times Croatian mathematics champion, vice-champion once		Zagreb, Croatia

Publications

- **M. Čudina, K. Ramanan**, *Asymptotically Optimal Controls for Time-inhomogeneous Networks*, SIAM Journal of Control and Optimization, Vol. 49, No.2, pp. 611-645

Presentations

- 2nd Croatian Mathematical Congress (Zagreb, Croatia, June 2000)
- 13th Conference of the Applied Probability Society of INFORMS (Ottawa, July 2005)
- 14th Conference of the Applied Probability Society of INFORMS (Eindhoven, July 2007)

Service

Texas Higher Education Coordinating Board

REVIEWER

Fall 2020

Faculty Advisory Committee

MEMBER

*Services for Students with
Disabilities*

Fall 2020 - Spring 2021

Course advocate

M339D, M339W, M358K

Department of Mathematics

July 2020 - present

Instructional faculty review committee

MEMBER

Department of Mathematics

September 2016 - May 2020

Actuarial MA applications review committee

MEMBER

Department of Mathematics

September 2014 - present

Doctoral committee for Chengcheng Liu
MEMBER

Operations Research
Summer 2017- Summer 2019

Doctoral committee for E. Arda Sisbot
MEMBER

Operations Research
Fall 2014- Summer 2015

Awards committee
MEMBER

Department of Mathematics
September 2012 - May 2017

Awards committee
CHAIR

Department of Mathematics
September 2013 - May 2014

Theory of Interest review committee
MEMBER

Department of Mathematics
September 2012 - May 2013

Outreach

- Gave a talk on "Graphs, trees, and random walks" at the Saturday Morning Math Group, UT Austin
- Led the Math Club for first graders at Hill Elementary, Austin, TX
- Volunteered to prepare Kindergarteners for Math Pentathlon at Hill Elementary, Austin, TX