

Olga Y. Savchuk

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CITIZENSHIP: UKRAINE

RESEARCH INTERESTS

Nonparametric regression and density estimation. Methods of bandwidth selection. Density estimation after transformation of data.

EDUCATION

Ph.D. Statistics, August 2009

Texas A&M University,

Advisors: Jeffrey D. Hart, Simon J. Sheather.

Dissertation title: "Choosing a kernel for cross-validation"

M.S. Statistics, May 2006

Texas A&M University,

Advisor: Jeffrey D. Hart

M.S. Electrical Engineering, June 2002

*National Technical University of Ukraine,
Summa Cum Laude*

Advisor: Alexander I. Krasilnikov

B.S. Electrical Engineering, June 2000

*National Technical University of Ukraine,
Summa Cum Laude*

Advisor: Alexander I. Krasilnikov

WORK EXPERIENCE

August 2009 – present

Visiting Assistant Professor

Department of Mathematical Sciences
Binghamton University, Binghamton, NY

September 2004 – May 2009

Teaching Assistant and Instructor

Texas A&M University, College Station, TX

Aug 2005 – May 2006

Statistical Consulting

Texas A&M University, College Station, TX

PAPERS

Published:

1. Savchuk, O.Y., Hart, J.D., and Sheather, S.J. (2011) “An Empirical Study of Indirect Cross-validation”, *Nonparametric Statistics and Mixture Models: A Festschrift in Honor of Thomas P. Hettmansperger*. World Scientific Publishing, Singapore, 288-308.
2. Savchuk, O.Y., Hart, J.D., and Sheather S.J. “Indirect Cross-validation for Density Estimation”, *J. Amer. Statist. Assoc.*, 2010, 105(489): 415-423.
3. Krasilnikov, A.I., and Savchuk, O.Y. “Quadrature Formula for Numerical Computation of Poisson Spectrum Function of Fluctuation Signals”, *Electronics and Communication*, **17** (2002), 83–88 (in Russian).
4. Borovikova (maiden name of Savchuk), O.Y., and Krasilnikov, A.I. “Correlation Function of Linear Random Processes with Power Kernels”, *Electronics and Communication*, **14** (2002), 180–183 (in Russian).
5. Borovikova (maiden name of Savchuk), O.Y., Krasilnikov, A.I., and Myslovich, M.V. “Models of Poisson Spectrum Function in Problems of Diagnostics of Electrotechnical Devices”, *Technical Electrodynamics*, **4**, (2002), 73–78 (in Russian).

Submitted for publication or in preparation:

1. Savchuk, O.Y., Hart, J.D., and Sheather, S.J. “One-Sided Cross-Validation for Nonsmooth Regression Functions”, submitted to *Journal of Nonparametric Statistics*.
2. Savchuk, O.Y., Schick A. “Density estimators for data after the power transformation”, in preparation.

TEACHING

Binghamton University

Math 327

Probability with Statistical Methods
(65 students), Spring 2012

Math 148

Elementary Statistics for Biologists
(116 students)
Spring 2010, Fall 2010, Spring 2011, Fall 2011

Math 222

Calculus II (40 students)
Fall 2009, Spring 2012

Math 220

Calculus for Business and Management
(50 students), Fall 2009

Texas A&M University

Stat 303

Statistical Methods (50 students)
Spring 2009

AWARDS

June 2008	2008 Emanuel Parzen Graduate Research Fellowship Award, Department of Statistics, <i>Texas A&M University</i>
September 2004 – May 2005	Regent's Fellowship, The College of Science, <i>Texas A&M University</i>
September 2004 – May 2005	AUF Fellowship, The College of Science, <i>Texas A&M University</i>
November 2002	Third award in Contest of Master's theses, <i>National Technical University of Ukraine</i>
September 2002	First award in Contest of Master's theses, Department of Electronics, <i>National Technical University of Ukraine</i>

PROFESSIONAL SERVICE

REFEREE for the following journals:

- (1) Canadian Journal of Statistics
- (2) Statistics and Probability Letters

SKILLS

Computer

R (proficient), S-Plus, Maple, SPSS, SAS, MathCad, MatLab, L^AT_EX, Microsoft Office

Languages

English (fluent), Russian (native), Ukrainian