

# Olena Kozhushkina

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CONTACT INFORMATION	Pardee Hall 212 Department of Mathematics Lafayette College Easton, PA 18042 USA	<i>Phone:</i> (330) 389-2027 <i>E-mail:</i> kozhusho@lafayette.edu <i>www:</i> <a href="http://sites.lafayette.edu/kozhusho/">http://sites.lafayette.edu/kozhusho/</a>
RESEARCH INTERESTS	Functional analysis; operator theory; approximation theory; geometry of Banach spaces.	
EDUCATION	<p><b>Ph.D. in Mathematics</b>, August 2014 Kent State University, Kent, Ohio USA</p> <ul style="list-style-type: none"><li>• Dissertation Topic: “The Bishop-Phelps-Bollobás Theorem and Operators on Banach Spaces”</li><li>• Advisors: Richard M. Aron, Bernardo Cascales, and Antonio J. Guirao</li></ul> <p><b>M.A. in Pure Mathematics</b>, May 2010 Kent State University, Kent, Ohio USA</p> <p><b>M.S. in Applied Mathematics</b>, June 2007 Volodymyr Dahl East-Ukrainian National University, Ukraine</p> <ul style="list-style-type: none"><li>• Thesis Topic: “Investigation of Some Semigroups in the Ring of Quaternions”</li><li>• Advisor: Y. M. Arlinskii</li></ul> <p><b>B.A. in Applied Mathematics</b>, June 2006 Volodymyr Dahl East-Ukrainian National University, Ukraine</p> <p><b>Specialist Degree in Teaching English</b>, June 2006 Taras Shevchenko National University of Luhansk, Ukraine</p>	
ACADEMIC POSITIONS	<p><b>Lafayette College</b>, Easton, Pennsylvania USA</p> <p><i>Visiting Assistant Professor</i> <b>Fall 2014–present</b> Duties include teaching courses in Mathematics; evaluating and revising curricula, course content, course materials and methods of instruction; preparing course materials; initiating, facilitating, and moderating classroom discussions; evaluating and grading students’ assignments.</p> <p><i>Visiting Instructor</i> <b>Spring 2014</b></p> <p><i>Adjunct Professor</i> <b>Fall 2013</b></p> <p><b>Kent State University</b>, Kent, Ohio USA</p> <p><i>Graduate Assistant</i> <b>2007–2012</b> Duties included teaching a variety of classes (listed below), mentoring new teaching assistants; assisted in the summer REU program and summer STEM academy for high-school students potentially interested in teaching; assisted with web-based Basic Algebra sequence classes; a grader for Discrete Mathematics class (MATH 31011) and Fundamental Concepts of Algebra class (MATH 34001).</p>	
PUBLICATIONS	<p>R. M. Aron, B. Cascales, <b>O. Kozhushkina</b> (2011). The Bishop-Phelps-Bollobás theorem and Asplund operators, <i>Proceedings of AMS</i>, 139, no. 10, 3553–3560.</p> <p>A. J. Guirao, <b>O. Kozhushkina</b> (2013). The Bishop-Phelps-Bollobás property in <math>l_1(\mathbb{C})</math> for numerical</p>	

radius, *Studia Mathematica*, 218, no. 1, 41–54. arXiv:1301.4574

## PAPERS IN PREPARATION

**O. Kozhushkina.** “On the Bishop-Phelps-Bollobás property and Banach algebras.”

## TEACHING EXPERIENCE

### Lafayette College, Easton, Pennsylvania USA

- Discrete Structures (Math 182) Spring 2016
- Calculus I (Math 161) Fall 2015
- Linear Algebra with Applications (Math 272) Spring 2016, Spring 2015
- Calculus II (Math 162) Spring 2015
- Differential Calculus and Economic Modeling (Math 141) Spring 2014
- Applied Statistics (Math 186) Fall 2014, Spring 2014
- Multivariable Calculus (Math 263) Fall 2015, Fall 2014, Fall 2013

### Kent State University, Kent, Ohio USA

- Basic Mathematical Concepts II (MATH 14002) Spring 2012
- Basic Mathematical Concepts I (MATH 14001) Fall 2011
- Basic Probability and Statistics (MATH 30001) Spring 2010
- Modeling Algebra (MATH 11010) Fall 2010
- Trigonometry (MATH 11022) Fall 2010, Spring 2009
- Analytic Geometry and Calculus I (MATH 12001) Fall 2008
- Algebra for Calculus (MATH 11010) Spring 2008, Fall 2007

## RESEARCH ACTIVITIES

### Conference Presentations, Invited Talks, and Seminars

- AMS Special Session Probabilistic and Analytic tools in Convexity, Athens, Georgia 2016
- MAAD Talk, Lafayette College, Easton, Pennsylvania 2014
- Seminar, Lafayette College, Easton, Pennsylvania 2013
- Invited Talk, Complex Analysis Seminar, University of Toledo, Toledo, Ohio 2013
- Joint Mathematics Meeting, San Diego, California 2013
- AMS Fall Sectional Meeting, Special Session on Operator Theory and Function Spaces, Rochester Institute of Technology, Rochester, New York 2012
- Nonlinear Analysis Seminar, Kent State University, Kent, Ohio 2011
- Invited Talk, Department of Mathematics, Universidad de Murcia, Murcia, Spain 2011
- Special Session on Function Spaces, The Sixth Conference on Function Spaces at SIEU, Edwardsville, Illinois 2010
- Nonlinear Analysis Seminar, Kent State University, Kent, Ohio 2010
- Measure Theory Seminar, Kent State University, Kent, Ohio 2009

### Conferences Attended

- Joint Mathematics Meeting, Seattle, Washington 2016
- AMS Fall Sectional Meeting, Washington University, St. Louis, Missouri 2013
- Joint Mathematics Meeting, San Diego, California 2013
- AMS Fall Sectional Meeting, Akron, Ohio 2012
- Informal Analysis Seminar, Kent, Ohio 2011
- Summer School on Fourier Analytic and Probabilistic Methods in Geometric Functional Analysis and Convexity, Kent, Ohio 2008

### Research Grant

FRG: Collaborative Research: Fourier analytic and probabilistic methods in geometric functional analysis and convexity, Fall 2009–Spring 2010

## Visiting

Universidad de Murcia, Departamento de Matemáticas, Facultad de Matemáticas, Murcia, Spain,  
June–July 2011

SERVICE TO THE PROFESSION    Reviewer for Mathematical Reviews (5 papers reviewed); referee for the Journal of London Mathematical Society

COMPUTER SKILLS    R, Mathematica

LANGUAGES    *English* (fluent); *Russian* (native speaker); *Ukrainian* (native speaker); *French* (elementary proficiency)

REFERENCES    

- Richard M. Aron, Professor  
Thesis advisor  
Department of Mathematical Sciences  
Kent State University, Kent, Ohio, 44242 Phone: 330-672-9116  
Email: aron@math.kent.edu
- Bernardo Cascales, Professor  
Thesis advisor  
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Universidad de Murcia, 30100 Espinardo, Murcia, Spain  
Phone: +34 868 88 41 74  
Email: beca@um.es
- Gary Gordon, Marshall R. Metzgar Professor  
Department of Mathematics, Department Head  
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- Robert Root, Professor  
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