Bogdan Krstić | CV

Department of Mathematics, University of Virginia
Charlottesville, VA 22904 – United States of America

bk2fh@virginia.edu • uva.theopenscholar.com/bogdan-krstic

Education

University of Virginia — **Charlottesville, VA**
Ph.D., Mathematics, Advisor: Nicholas Kuhn — *2014–present*
Thesis title: Bispans in ∞-categories and global Tambara functors

Oregon State University — **Corvallis, OR**
M.S., Mathematics — *2012–2014*

Grinnell College — **Grinnell, IA**
B.A., Mathematics and Statistics — *2008–2012*

Research Interests

Homotopy theory and higher category theory: In particular, using higher categories to build categorical frameworks for the study of structures (Tambara functors) axiomatizing analogues of the operations of induction and restriction of group representations in (global) equivariant homotopy theory.

Teaching Experience

Department of Mathematics — **University of Virginia**
Graduate Teaching Assistant — *2014–present*
Lead instructor for one course per term after the first year.

- Helped develop and implement active learning calculus sequence, led by Professor Paul Bourdon. Participated in course design workshops and contributed instructional videos.
- Courses taught as lead instructor (coordinated unless otherwise mentioned):
  - Active learning sections of Calculus I and II
  - Calculus III (not coordinated)
  - Applied Calculus I and II
- Courses taught as TA: Calculus II and III

Department of Mathematics — **Oregon State University**
Graduate Teaching Assistant — *2012–2014*
Led weekly recitations in a variety of undergraduate courses, taught a summer course and tutored students enrolled in courses across the undergraduate spectrum.

- Courses taught as TA:
  - Vector Calculus I & II
  - Matrix and Power Series Methods
  - Introduction to Contemporary Mathematics
  - Calculus for Management and Social Science
  - College Algebra
- Course taught as lead instructor: Introduction to Contemporary Mathematics

Mathematics Laboratory **Grinnell College**
Calculus Tutor *2009–2012*

Talks Given

March 2020: Bispans in ∞-categories and global Tambara functors, Spring AMS Sectional Meeting, University of Virginia

March 2020: Bispans in ∞-categories and global Tambara functors, Ohio State University

February 2020: Invited talk, University of Notre Dame, Topology Seminar

Fall 2019: Bispans in ∞-categories and global Tambara functors, University of Virginia, Topology Seminar

Fall 2019: Crash course on $(\infty, 1)$-categories and adjunctions (two talks), University of Virginia, Lie Algebras in Homotopy Theory Seminar

Fall 2018: "$RO(G)$-graded cohomology theories" (two talks), University of Virginia, Equivariant Homotopy Theory Seminar

Summer 2018: "Stable $(\infty, 1)$-categories and spectra" (two talks), University of Virginia, Summer Graduate Motivic Homotopy Theory Seminar

Summer 2018: "Cohomology theories in topology", University of Virginia, Summer Graduate Motivic Homotopy Theory Seminar

Spring 2018: "Global Tambara Functors", University of Virginia, Topology Seminar

Spring 2018: "The cohomology of Morava stabilizer groups and homotopy of $K(n)$-local spheres", University of Virginia, Computations in the Stable Homotopy Groups of Spheres Seminar

Spring 2018: "The James reduced product and EHP spectral sequence", University of Virginia, Computations in the Stable Homotopy Groups of Spheres Seminar

Fall 2016: "Equivariant cohomology theories, fixed points and character rings", University of Virginia, Power Operations Seminar

Fall 2016: Three talks on λ-rings and Adams operations, University of Virginia, Power Operations Seminar

Winter 2014: "Finiteness of Quotients of $T(3, 3, 3)$", Oregon State University, Geometry-Topology Seminar.

Spring 2012: "An Introduction to Algebraic Topology through Homotopy and the Fundamental Group", Grinnell College, Mathematics and Statistics Student Seminar.

Fall 2010: "Strange Geometry: A Short Introduction to Hyperbolic Geometry", Grinnell College, Mathematics and Statistics Student Seminar.

Conferences Attended

March 2020: AMS Sectional Meeting, University of Virginia, Charlottesville, VA

January 2020: Joint Math Meetings, Denver, CO

October 2019: Category Theory OctoberFest, Johns Hopkins University, Baltimore, MD

October 2019: Mid-Atlantic Topology Conference, University of Virginia, Charlottesville, VA

May 2019: Midwest Topology Seminar, Michigan State University, Lansing, MI

April 2019: Shanks Workshop on Homotopy Theory, Vanderbilt University, Nashville, TN

August 2017: Homotopy Theory in the Ecliptic: Chromatic, Equivariant, and Motivic Mathematics, Reed College, Portland, OR

June 2017: Algebraic Topology and Representation Theory, University of Lille, Lille, France

August 2016: Second Chicago Summer School in Geometry and Topology, University of Chicago, Chicago, IL

June 2016: Topology of Manifolds, University of Lisbon, Lisbon, Portugal

March 2016: Mid-Atlantic Topology Conference, Johns Hopkins University, Baltimore, MD

April 2015: Mid-Atlantic Topology Conference, University of Virginia, Charlottesville, VA

July 2014: MSRI/CIMAT Summer Graduate School in Algebraic Topology, Guanajuato, Mexico.

April 2014: Cascade Topology Seminar, Oregon State University, Corvallis, OR

Service

UVa Math Ambassadors
Outreach volunteer *2015 – 2016, 2018 –*
Visiting local elementary and middle schools and leading the students in fun and exciting math activities from outside the usual curriculum

UVa Sonia Day
Outreach volunteer *2019*
Created and led hour-long interactive activity on Euler charactersitics, for local middle school students

Languages

English: Native

Serbian: Native

French: Basic

References

Nicholas Kuhn
Department of Mathematics
University of Virginia
141 Cabell Drive, Kerchof Hall
Charlottesville, VA 22904
njk4x@virginia.edu
434-924-7123

Julie Bergner
Department of Mathematics
University of Virginia
141 Cabell Drive, Kerchof Hall
Charlottesville, VA 22904
jeb2md@virginia.edu
434-924-4954

Mike Hill
Mathematics Department
University of California, Los Angeles
Box 951555
Los Angeles, CA 90095-1555
mikehill@math.ucla.edu
310-825-2229

Paul Bourdon (Teaching Reference)
Department of Mathematics
University of Virginia
141 Cabell Drive, Kerchof Hall
Charlottesville, VA 22904
psb7p@virginia.edu
434-982-2787