

Irfan Glogić

CONTACT INFORMATION *E-mail:* glogic.1@osu.edu Department of Mathematics
Phone: (614) 292-7065 The Ohio State University
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APPOINTMENTS **University of Vienna, Austria**
Postdoc, Department of Mathematics, starting March 2018.

EDUCATION **The Ohio State University**
Ph.D., Mathematics, Aug. 2012 - Feb. 2018
Advisor: Ovidiu Costin
University of Sarajevo, Bosnia and Herzegovina
Master studies, Mathematics, 2010 - 2012
B.S. with distinction, Mathematics, 2007 - 2010

HONORS, AWARDS AND FELLOWSHIPS **Presidential Fellowship**,
Awarded by the Graduate School, Ohio State University, 2017.
Phil Huneke Distinguished Graduate Teaching Associate Award, Department of Mathematics, Ohio State University. *Finalist* 2015. *Runner-up* 2016.
Special Graduate Assignment, Department of Mathematics, Ohio State University. Fall 2015, Fall 2016 and Spring 2018.
Student of the Generation, University of Sarajevo 2010 (awarded to the best graduating student of the university).
Golden Badge, Faculty of Natural Sciences and Mathematics, University of Sarajevo 2010 (awarded to the best graduating student of the faculty).
Bronze Medal at the 47th International Mathematical Olympiad, Slovenia 2006.

RESEARCH INTERESTS • Analysis (Partial Differential Equations, Harmonic Analysis, Asymptotic Analysis)
• Mathematical physics (general relativity, fluid dynamics)

PUBLICATIONS **Research Papers**
4. *On the existence and stability of blowup for wave maps into a negatively curved target.* with R. Donninger - submitted. arxiv.org/abs/1705.06352
3. *On blowup of co-rotational wave maps in odd space dimensions.* with A. Chatzikaleas and R. Donninger. *J. Differential Equations.* 263(8): 5090-5119, 2017.
2. *Mode stability of self-similar wave maps in higher dimensions.* with O. Costin and R. Donninger. *Comm. Math. Phys.* 351(3): 959-972, 2017.
1. *On the stability of self-similar solutions to nonlinear wave equations.* with O. Costin, R. Donninger and M. Huang. *Comm. Math. Phys.*, 343(1): 299-310, 2016.

Book

Solved problems for high school mathematical competitions in the Federation of Bosnia and Herzegovina (1995.-2008.). (in Bosnian). 505 pp. with Š. Arslanagić. Grafičar promet, Sarajevo 2009.

CONFERENCES & WORKSHOPS (PAST AND FUTURE)

Mathematics of Wave Phenomena,
Karlsruhe Institute of Technology, Germany, July 2018.

Bosnian Conference on Mathematical Sciences,
University of Sarajevo, July 2018.

Nonlinear Dirac equations and related problems,
University of Bielefeld, Germany, May 2018.

American Mathematical Society's Eastern Sectional Meeting,
SUNY Buffalo, New York, September 2017.

Hausdorff Mathematical School, *Dispersive Equations, Solitons and Blow-up,*
University of Bonn, Germany, September 2017.

Ohio River Analysis Meeting, University of Cincinnati, March 2017.

Asymptotic and computational aspects of complex diff. equations,
CRM, Pisa, Italy, February 2017.

Summer School in Analysis, University of Chicago, June 2015.

Topics in Euler's equation for incompressible fluids, U Notre Dame, May 2014.

Hyperbolic Geometry and Arithmetic, University of Sarajevo, October 2010.

TALKS GIVEN

AMS Eastern Sectional Meeting, SUNY Buffalo, September 2017.
Title: *Existence and stability of blowup for wave maps into a negatively curved target.*

Analysis & Operator theory Seminar, Ohio State University, April 2017.
Title: *Mode-stability of self-similar solutions to nonlinear wave equations.*

PDE Seminar, Ohio State University, March 2017.
Title: *Existence and stability of blowup for wave maps into a negatively curved target.*

Graduate Student Seminar, Ohio State University, February 2017.
Title: *Singularity formation in nonlinear partial differential equations.*

Scientific Colloquium, University of Sarajevo, July 2016.
Title: *Mode-stability of self-similar solutions to nonlinear wave equations.*

TEACHING EXPERIENCE

Ohio State University

Teaching Assistant

- Math 1151: Calculus 1. Fall 2012, Spring 2013.
- Math 1152: Calculus 2. Fall 2013, Spring 2015.
- Math 2153: Calculus 3. Spring 2014.
- Math 1131: Business Calculus. Fall 2014
- Math 1172: Engineering Mathematics 1. Spring 2016

University of Sarajevo

Demonstrator (undergraduate teaching assistant)

- Mathematics 1. Fall 2008, Fall 2009. Department of Physics
- Mathematics 2. Spring 2009, Spring 2010. Department of Physics

OTHER ACTIVITIES

Colloquium Committee, Department of Mathematics, Ohio State University.
Member, 2017 - 2018

Students for Dialogue - student organization, Ohio State University.
President, 2015 - 2017

Council of Graduate Studies, Department of Mathematics, Ohio State University.
Student Representative, 2015 - 2016

REFERENCES

Prof. Ovidiu Costin
Department of Mathematics
Ohio State University
E-mail: costin.9@osu.edu

Prof. Saleh Tanveer
Department of Mathematics
Ohio State University
E-mail: tanveer@math.ohio-state.edu

Prof. Roland Donniger
Department of Mathematics
University of Vienna, Austria
E-mail: roland.donniger@univie.ac.at

Prof. Wilhelm Schlag
Department of Mathematics
University of Chicago
E-mail: schlag@math.uchicago.edu