

Iva Kodrnja
January 16, 2020

EDUCATION

- 2011 – 2016 Faculty of Science, University of Zagreb
Ph.D. in Mathematics
Thesis title: *Models for Modular Curves, Modular Forms and η -quotients*
Supervisor: Prof. Dr. Goran Muić
- 2008 – 2010 Faculty of Science, University of Zagreb
M.S. in Mathematics
Dissertation Title: *Smooth Projective Curves*
Supervisor: Prof. Dr. Goran Muić
- 2005 – 2008 Faculty of Science, University of Zagreb
B.S. in Mathematics
- 2002 – 2006 Music school Vatroslav Lisinski, Zagreb, Croatia
high-school diploma for piano player

EMPLOYMENT

- 2020 – assistant professor
Faculty of Geodesy, University of Zagreb
- 2017 – 2019 postdoctoral researcher
Faculty of Civil Engineering, University of Zagreb
- 2011 – 2017 teaching assistant
Faculty of Civil Engineering, University of Zagreb
- 2010 – 2011 teacher of Mathematics
Elementary school K. Š. Gjalski, Zabok, Croatia
- 2010 – 2011 part-time teaching assistant
Department of Mathematics, Faculty of Science, University of Zagreb

PUBLICATIONS

Scientific papers

- (with BANIČEK, M. AND FRESL, K.) *Line geometry and 3D graphic statics*, GRAĐEVINAR, 71 (2019) 10, 863-875.
- (with BANIČEK, M. AND FRESL, K.) *Graphic statics and Grassmann algebra*, Proceedings of Future trends in Civil Engineering, Zagreb, 2019, 304-323. *On a simple model of $X_0(N)$* , Monatshefte für Mathematik 186 (4), 2018, 653-661.
- *On a simple model of $X_0(N)$* , Monatshefte für Mathematik 186 (4), 2018, 653-661.
- (with KONCUL, H.) *The Loci of Vertices of Nedian Triangles*, KoG **21**, 2017, 19-25.
- *Eta-quotients and embeddings of $X_0(N)$ in the projective plane*, Ramanujan Journal **46**, 2018, no. 2, 509-524.

Professional papers

- (with BANIČEK M. AND FRESL K.) *Some examples of static equivalency in space using descriptive geometry and Grassmann algebra*, Proceedings of the IASS Annual Symposium 2018: Creativity in Structural Design, Boston, 2018, 341-349.
- (with ŠAMEC E.) *The Heltocat Family of Surfaces*, KoG **19**, 2015, 57-64.

Submitted papers

- (with MUIĆ, G.) *On primitive elements of algebraic function fields and models of $X_0(N)$*

Books

- (with GORJANC S., JURKIN E. AND KONCUL H.) *Descriptive Geometry* (in Croatian), University Textbook, Faculty of Civil Engineering, Zagreb, 2018., (available at <https://www.grad.hr/geometrija/udzbenik/>)

RESEARCH EXPERIENCE

Member of research team on the project *Automorphic forms, representations and applications* funded by Croatian Science Foundation from 2014 to June 2018.

CONFERENCES ATTENDED

- 21st Scientific-Professional Colloquium on Geometry and Graphics, Sisak, Sep 2019 (posters)
- Bridges Linz 2019 - Mathematics, Art, Music, Architecture, Education, Culture (artwork)
- Summer School LGLS (Line Geometry for Lightweight Structures), Dresden, Oct 2018
- 4th Croatian Conference on Geometry and Graphics, Peroj, Sep 2018 (talk)
- Workshop: On some recent developments in local and global representation theory, Zagreb, May 2018 (talk)
- 20th Scientific-Professional Colloquium on Geometry and Graphics, Fužine, Sep 2017 (talk)
- 3rd Building Bridges - Workshop on Automorphic Forms and Related Topics, Sarajevo, Jul 2016 (talk)
- 6th Croatian Mathematical Congress, Zagreb, Jun 2016 (talk)
- Young Women in Algebraic Geometry, Bonn, Oct 2015 (poster)
- 18th Scientific - Professional Colloquium on Geometry and Graphics, Beli Manastir, Sep 2015 (talk)
- 3rd Croatian Conference on Geometry and Graphics, Supetar, Sep 2014, (talk and poster)
- 17th Scientific - Professional Colloquium on Geometry and Graphics, Rastoke, Sep 2013 (talk)
- Summer School GEFFA (Geometry Education for Future Architects), Rijeka, 2012

MEMBERSHIPS

Member of Croatian Society for Geometry and Graphics.

TEACHING EXPERIENCE

COURSES TAUGHT

- Descriptive geometry, undergraduate level
- Perspective, graduate level
- Basics of computer engineering, undergraduate level
- Mathematics I, undergraduate level
- Mathematics II, undergraduate level
- Algorithms and data structures, undergraduate level
- Differential geometry, postgraduate level

ADDITIONAL INFORMATION

COMPUTER SKILLS

- *MS Office*
- experience in programming; *C*, *C++* and *Python*
- *Rhinoceros 3D* with *Grasshopper*

LANGUAGES

	speaking	writing	reading
English	C1	C1	C1
German	B1	A2	B1
Spanish	B1	A2	B2