

## PERSONAL INFORMATION

## Nino Krvavica



 Ede Jardasa 26, 51 000 Rijeka, Croatia  
 +385 51 622 270  +385 91 51 52 897  
 [Nino.krvavica@uniri.hr](mailto:Nino.krvavica@uniri.hr) ; [nino.krvavica@gmail.com](mailto:nino.krvavica@gmail.com)  
 <https://nkrvavica.github.io/>

Sex M | Date of birth 25/12/1982 | Nationality Croatian

## WORK EXPERIENCE

January 2019 - Present

## Assistant Professor

University of Rijeka, Faculty of Civil Engineering

- Teaching Coastal Engineering and Urban Water Management, and researching numerical modelling of shallow water flows

Business or sector Education and Research

July 2017 – December 2018

## PostDoc

University of Rijeka, Faculty of Civil Engineering

- Teaching Coastal Engineering and Urban Water Management, and researching numerical modelling of shallow water flows

Business or sector Education and Research

July 2011 – June 2017

## PhD Student and Teaching Assistant

University of Rijeka, Faculty of Civil Engineering

- Assisting in Coastal Engineering and Urban Water Management classes, and researching numerical modelling of shallow water flows

Business or sector Education and Research

December 2007 – June 2011

## Civil Engineer

Institute IGH, RC Rijeka, Croatia

- Research, design and planning documents for hydraulic and coastal structures

Business or sector Civil Engineering

## FORMAL EDUCATION

May 2009 – November 2016

## PhD in Civil Engineering

University of Rijeka, Faculty of Civil Engineering

July 2001 – September 2007

## Master's in Civil Engineering

University of Rijeka, Faculty of Civil Engineering

## EDUCATION AND TRAINING

July 2017

Workshop: Data driven operator theoretic framework for space-time analysis of process dynamics

University of Rijeka, Faculty of Engineering

### May – June 2017 Lifelong Learning: English Language Training for Teachers

University of Rijeka, Faculty of Humanities and Social Sciences

▪ 8 ECTS points

### March 2016 Workshop: Student-directed teaching

University of Rijeka, Faculty of Civil Engineering

▪ Development and implementation of the Croatian Qualifications Framework in the field of higher education of civil engineers

### February 2015 Workshop: LabVIEW Core 1 and 2

National Instruments

▪ LabVIEW Core 1 and 2

## VISITING

### June – July 2016 University of Zagreb, Faculty of Civil Engineering, Zagreb, Croatia

Cooperation on a national project EKOMARINA

### May – July 2013 Kyoto, University, Graduate school of advanced integrated studies in human survivability, Kyoto, Japan

JICA Scholarship

## PERSONAL SKILLS

Mother tongue(s) Croatian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	A2	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

### Communication skills

- Good communications skills, gained through my experience as a teaching assistant and other teaching related responsibilities at the University of Rijeka
- Good ability to adopt to team work, gained through my experience working on several research and design projects at the Institute IGH

### Organisational / managerial skills

- Good planning skills gained as a member of organizing committee of scientific workshop *Radar Meteorology*, 2013, Rijeka
- Good problem solving and time planning skills, gained through active participation on several research and design projects at the Institute IGH

### Digital skills

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

- excellent command of Python and MATLAB programming languages
- good command of office suite (word processor, spread sheet, presentation software)
- good command of several commercial and open-source numerical modelling software (MIKE DHI, SWAN, OpenFOAM, Bentley SewerCAD, Bentley WaterCAD, HEC-RAS, SWMM, STAAD, SCIA)
- good command of QGIS software
- good command of AutoCAD and AutoCAD Civil 3D
- good command of LaTeX typesetting system
- good command of photo editing software gained as an amateur photographer

- Other skills
- Digital Photography
  - Basic Musical Education

Driving licence B

## ADDITIONAL INFORMATION

### Publications in Web of Science Core Collection

- Nino, Krvavica; Tuhtan, Miran; Gordan, Jelenić. Analytical implementation of Roe solver for two-layer shallow water equations with accurate treatment for loss of hyperbolicity. *Advances in water resources*, 122 (2018), C; 187-205 doi:10.1016/j.advwatres.2018.10.017
- Krvavica, Nino; Jaredić, Krešimir; Rubinić, Josip. Metodologija definiranja mjerodavne oborine za dimenzioniranje infiltracijskih sustava. *Građevinar*, 70 (2018), 8; 657-669 doi:10.14256/JCE.2317.2018
- Karleuša, Barbara; Rubinić, Josip; Radišić, Maja; Krvavica, Nino. Analysis of Climate Change Impact on Water Supply in Northern Istria (Croatia). *Technical Gazette*, 20 (2018), Supplement 2; 366-374 doi:10.17559/TV-20170809140304
- Ružić, Igor; Benac, Čedomir; Ilić, Suzana; Krvavica, Nino; Rubinić, Josip. Geomorfološke promjene minijaturnog žala na kršu. *Hrvatske vode*, 26 (2018), 103; 27-34. (In Croatian)
- Krvavica, Nino; Ružić, Igor; Ožanić, Nevenka. New Approach to Flap-Type Wavemaker Equation with Wave Breaking Limit. *Coastal engineering journal*, 60 (2018), 1; 69-78 doi:10.1080/21664250.2018.1436242
- Krvavica, Nino; Ružić, Igor; Ožanić, Nevenka. Integrated computational model for Sea Organ simulation. *Građevinar*, 70 (2018), 4; 287-295 doi:10.14256/JCE.2171.2017
- Krvavica, Nino; Kožar, Ivica; Ožanić, Nevenka. The relevance of turbulent mixing in estuarine numerical models for two-layer shallow water flow. *Coupled Systems Mechanics*, 7 (2018), 1; 95-109 doi:10.12989/csm.2018.7.1.095
- Krvavica, Nino; Travaš, Vanja; Ožanić, Nevenka. Salt-Wedge Response to Variable River Flow and Sea-Level Rise in the Microtidal Rječina River Estuary, Croatia. *Journal of coastal research*, 33 (2017), 4; 802-814 doi:10.2112/JCOASTRES-D-16-00053.1
- Krvavica, Nino; Kožar, Ivica; Travaš, Vanja; Ožanić, Nevenka. Numerical modelling of two-layer shallow water flow in microtidal salt-wedge estuaries: Finite volume solver and field validation. *Journal of Hydrology and Hydromechanics*, 65 (2017), 1; 49-59 doi:10.1515/johh-2016-0039
- Krvavica, Nino; Travaš, Vanja; Ožanić, Nevenka. A field study of interfacial friction and entrainment in a microtidal salt-wedge estuary. *Environmental fluid mechanics*, 16 (2016), 6; 1223-1246 doi:10.1007/s10652-016-9480-1
- Krvavica, Nino; Ružić, Igor; Ožanić, Nevenka. Analiza procjene intenziteta oborine pomoću X-band radara. *Hrvatske vode*, 24 (2016), 96; 137-146 (In Croatian)
- Travaš, Vanja; Krvavica, Nino; Rubeša, Josip. Modeliranje morfologije otvorenih korita za provedbu jednodimenzijske analize toka. *Hrvatske vode*, 23 (2015), 92; 123-132 doi:556.535.06 (In Croatian)
- Gajić-Čapka, Marjana; Ožanić, Nevenka; Krvavica, Nino. Estimation of maximum short-term precipitation over the Rijeka region. *Elektronički časopis Građevinskog fakulteta Osijek*, 5 (2014), 9; 49-59 doi:10.13167/2014.9.6
- Krvavica, Nino; Mofardin, Boris; Ružić, Igor; Ožanić, Nevenka. Mjerenje i analiza zaslaničivanja na ušću Rječine. *Građevinar*, 64 (2012), 11; 923-933

### Selected Presentations at Conferences

- 5th IAHR Europe Congress: New Challenges in Hydraulic Research and Engineering. 12 – 14 June 2018, Trento, Italy.
- 3rd International Conference on Computational Methods for Solids and Fluids – ECCOMAS MSF 20 – 22 September 2017, Ljubljana, Slovenia.
- 15th International Symposium on Water Management and Hydraulic Engineering – WMHE 2017. 6 – 8 September 2017, Primošten, Croatia.
- 7th International Short Course and Conference On Applied Coastal Research - SCACR 2015. 28 September – 1 October 2015, Florence, Italy.
- 4th Workshop of the Japanese- Croatian Project on Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia. 12 – 14 December 2013, Split, Croatia.
- Landslide and Flood Hazard Assessment: 1st Regional Symposium on Landslides in Adriatic-Balkan Region with 3rd Workshop of the Croatian-Japanese Project Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia. 6 – 9 March 2013, Zagreb, Croatia.
- 2nd Annual European Postgraduate Symposium on Sustainable Development - SDS 2012. 15 – 17 February 2012, Graz, Austria.
- 2nd Workshop on the Monitoring and Analyses for Disaster Mitigation of Landslides, Debris Flow and Floods. 15 – 17 December 2011, Rijeka, Croatia.

### Scientific Projects

- 2018 – Present: **River-Sea Interaction in the Context of Climate Changes**, Initial Project for Young Scientists funded by the University of Rijeka
- 2014 – 2018: **Hydrology of Water Resources and Risk Identification for Floods and Mud Flows in Karst**, funded by the University of Rijeka
- 2013 – 2016: **Networking for Drinking Water Supply in Adriatic Region – DRINKADRIA**, funded by the IPA Adriatic Cross Border Cooperation.
- 2011 – 2014: **Hydrology of Sensitive Water Resources in Karst**, funded by the Ministry of Science and Education of Republic of Croatia
- 2011 – 2014: **Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia (bilateral Croatian-Japanese project)**, co-funded by the Ministry of Science and Education of Republic of Croatia and Japanese International Cooperation Agency

### Reviews

- Reviewed for the following journals:
- Journal of Coastal Research
  - The Open Petroleum Engineering Journal
  - Građevinar
  - Hrvatske vode (In Croatian)
  - Zbornik Građevinskog fakulteta u Rijeci (In Croatian)
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### Awards

- 2018. Award for the best young scientist at the University of Rijeka in the field of biotechnology and technology, by the Scientific Foundation of the University of Rijeka
- 2005. – 2007. Scholarship for best students from all Faculties of Civil Engineering in Croatia, by the Croatian Waters.
- 2002. – 2005. Scholarship for gifted students by the Ministry of Science and Education of Republic of Croatia

### Memberships

- Croatian Hydrological Society (HHD)
- Croatian Society of Mechanics (HDM)
- Croatian Association of Civil Engineers (HSGI)
- Society of Civil Engineers Rijeka (DGIR)
- Faculty of Civil Engineering Rijeka Alumni Club