



Bogdan Okreša Đurić

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EDUCATION AND TRAINING

Research Visit

Valencian Research Institute for Artificial Intelligence, Politechnic University of Valencia [Feb 2024 – Jun 2025]

City: Valencia | **Country:** Spain | **Website:** <https://vrain.upv.es> | **Level in EQF:** EQF level 8

Awarded a research grant by the Croatian Science Foundation and the European Union under ID MOBODL-2023-08-5618. The planned research is divided into two parts. The main focus of Part I is on multiagent systems (MASs) in general, i.e. developing a framework for instantiating a multiagent system based on the given ontology, which is developed during this first part of this research as well. Part II is focused on gamification and developing a framework for gamifying artificial agents.

ITEC Student

Centre for Development of Advanced Computing [30 Jan 2023 – 10 Mar 2023]

City: Noida | **Country:** India

I was chosen to attend an Indian Technical and Economic Cooperation Programme (ITEC) course Specialised Programme in Artificial Intelligence along with 28 other people from 28 other countries. The course lasted for six weeks and included various topics from the domain of artificial intelligence.

Doctor of Science

University of Zagreb Faculty of Organization and Informatics [Jan 2015 – 13 Dec 2018]

City: Varaždin | **Country:** Croatia | **Website:** <https://www.foi.unizg.hr> | **Field(s) of study:** Information Sciences ; Information and Communication Technologies | **Final grade:** Magna cum laude | **Level in EQF:** EQF level 8 | **Thesis:** Organizational Modeling of Large-Scale Multi-Agent Systems with Application to Computer Games

Link: <https://urn.nsk.hr/urn:nbn:hr:211:783555>

Working on ModelMMORPG project, I continued my academic career under the supervision of my mentor Markus Schatten, PhD, with research interests in multiagent systems, computer games, agent-based modelling, semantic modelling, knowledge management, social network analysis, etc.

Research Stay

Politechnic University of Valencia [Oct 2016 – Feb 2017]

City: Valencia | **Country:** Spain

Scientific training opportunity with Vicente Julian Inglada, PhD, as mentor, and other members of Intelligence Research Group of UPV. I further improved collaboration, continued working on my research, and took two courses.

Master of Informatics

University of Zagreb Faculty of Organization and Informatics [2009 – 2012]

City: Varaždin | **Country:** Croatia | **Website:** <https://www.foi.unizg.hr> | **Field(s) of study:** Information and Communication Technologies | **Final grade:** 4.504 | **Level in EQF:** EQF level 7 | **Thesis:** Semantic Modeling of Business Rules

Link: <https://urn.nsk.hr/urn:nbn:hr:211:313811>

Awarded with Dean's Award for humanitarian activities, and for excellence in work in Student Council. Awarded a Special Rector's Award for assisting in the organization of International Student Research Symposium. Master Thesis titled Semantic Modeling of Business Rules, mentored by Markus Schatten, PhD.

Erasmus Mobility Participant

School of Business, Economics and Social Sciences, Karl-Franzens University of Graz [Jan 2011 – May 2011]

City: Graz | Country: Austria | Level in EQF: EQF level 6

Bachelor of Science in Information Technology with Distinction

University of Zagreb Faculty of Organization and Informatics [2006 – 2009]

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr> | Field(s) of study: Information and Communication Technologies: • Database and network design and administration | Final grade: 4.310 | Level in EQF: EQF level 6 | Thesis: Database Integrity

Bachelor Thesis titled Database Integrity, mentored by Mirko Maleković, PhD.

WORK EXPERIENCE

 *University of Zagreb Faculty of Organization and Informatics* – Varaždin, Croatia

City: Varaždin | Country: Croatia

Assistant Professor

[21 Jun 2024 – Current]

Working full-time in higher education. Member of Artificial Intelligence Laboratory. Teaching courses in Croatian or English: Multiagent Systems, Theory of Databases, Declarative Programming, Introduction to Computer Games, Computer Game Development Platforms, Introduction to Artificial Intelligence, Internet Security.

 *University of Zagreb Faculty of Organization and Informatics* – Varaždin, Croatia

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr/en> | Name of unit or department: Department of Theoretical and Applied Foundations of Information Sciences

Postdoctoral Researcher / Senior Teaching Assistant

[Jul 2021 – 21 Jun 2024]

Working full-time in higher education. Member of Artificial Intelligence Laboratory. Assistant to the Faculty's ECTS Coordinator (10/2021 - 6/2023). Teaching courses in Croatian or English: Multiagent Systems, Theory of Databases, Declarative Programming, Databases 1, Computer Games Development, Computer Game Development Platforms, Introduction to Computer Games.

 *University of Zagreb Faculty of Organization and Informatics* – Varaždin, Croatia

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr> | Name of unit or department: Department of Theoretical and Applied Foundations of Information Sciences

University Teaching Assistant

[Oct 2018 – Jul 2021]

Working full-time in higher education. Member of Artificial Intelligence Laboratory. Teaching courses in Croatian or English: Multiagent Systems, Theory of Databases, Declarative Programming, Data Structures, Databases 1, Knowledge Management.

 *Artificial Intelligence Laboratory, University of Zagreb Faculty of Organization and Informatics* – Varaždin, Croatia

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr> | Business or sector: Professional, scientific and technical activities

University Teaching Assistant

[1 Jan 2017 – Oct 2018]

Continuing my work at ModelMMORPG project as a doctoral student, in a scientific workplace. Aspects of continued research: large-scale multi-agent systems, and organizational models; semantic Web; social network analysis.

 *University of Zagreb Faculty of Organization and Informatics* – Varaždin, Croatia

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr> | Business or sector: Education

Nominal Associate Title Teaching Assistant

[Apr 2016 – Oct 2018]

Teaching course: Knowledge Managements.

 **Artificial Intelligence Laboratory, University of Zagreb Faculty of Organization and Informatics** – Varaždin, Croatia

City: Varaždin | Country: Croatia | Website: <https://www.foi.unizg.hr>

Expert Associate in Science and Higher Education

[1 Jan 2015 – 31 Dec 2016]

I am employed at ModelMMORPG project as a doctoral candidate.

Aspects of research: large-scale multi-agent systems, and organizational models; semantic Web; social network analysis.

 **Schiedel proizvodnja dimnjaka** – Novi Golubovec, Croatia

City: Novi Golubovec | Country: Croatia

Business Analyst

[Aug 2014 – Nov 2014]

My first full-time job. I was introduced to, and used, SAP BI tool to extract data and create reports for the local and regional management.

Detailed achievements: got to know SAP environment, especially SAP BI module; worked in team, and assisted colleagues in their everyday and ICT-related problems; attended several trainings on SAP, and cooperated with regional entities.

 **Elettra Sincrotrone Trieste** – Trieste, Italy

City: Trieste | Country: Italy

Erasmus+ Trainee

[Apr 2014 – Jul 2014]

After a call, I was selected to participate in Italo-Croatian Mobility in Europlanning (ICroME) project, as a trainee in Elettra Sincrotrone Trieste.

Detailed achievements: development and affirmation of my project management skills; worked in a new and challenging environment; learned about project funded by the EU.

 **Jožef Stefan Institute** – Ljubljana, Slovenia

City: Ljubljana | Country: Slovenia

Intern

[Dec 2012 – Feb 2013]

 **University of Zagreb Faculty of Organization and Informatics** – Varaždin, Croatia

City: Varaždin | Country: Croatia

Student Assistant

[Feb 2009 – Dec 2012]

Noncontinuous. I aided students in their academic assignments, practical classes and courses, namely: Text and Image Formatting, Data Structures, Knowledge-Based Systems, Knowledge Bases and Semantic Web.

Detailed achievements: developed my teaching skills; helped colleagues achieve course goals; worked with diverse people, altering my approach accordingly.

 **Jožef Stefan Institute** – Ljubljana, Slovenia

City: Ljubljana | Country: Slovenia

Erasmus Intern

[Feb 2012 – Jul 2012]

Using ERASMUS programme I was an intern for five months. I worked at the Knowledge Technologies department, using Orange4WS platform, data mining techniques and CloudFlows platform development, Python, Django, and Orange.

Detailed achievements: had my programming skills challenged; learned about new technologies; worked in a new and multicultural environment; broadened my network of people; practised teamwork.

PUBLICATIONS

[2012 – Current]

Full List of Publications

Full list of publications is available at Croatian Research Information System, scientist ID 367114.

Link: <https://www.croris.hr/crosbi/searchByContext/2/34294?lang=en>

PROJECTS

[2015 – Current]

List of Projects I participated as a team member or lead in several national or international scientific or professional projects on various topics related to artificial intelligence, machine learning, multiagent systems, video games and gamification. A complete list of the projects I participated in is available at the UNIZG FOI Project Database.

Link: <https://projects.foi.hr/portfolio/dokresa/en>

LANGUAGE SKILLS

Mother tongue(s): Croatian

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Spanish

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Modelling and Managing Databases / Artificial Intelligence / Linux / Git / Computer Games / Multiagent Systems / Github / Relational databases

Programming

C++ / Python / C / Prolog / Flora-2 / MySQL / SQL / JSON / HTML / CSS / JavaScript / Docker / PostgreSQL / Object-Oriented Programming / Web Development / XML / REST

Semantic Modelling

RDFS / RDF / OWL / Protégé / SPARQL

Office Tools and Publishing

LaTeX / Microsoft Office

SOCIAL AND POLITICAL ACTIVITIES

[Feb 2022 – Sep 2023] University of Zagreb Faculty of Organization and Informatics, Varaždin, Croatia

President of the Association of Teaching Assistants

[Dec 2014 – Oct 2019] Varaždin, Croatia

Member of Youth Association Varaždin Underground Club

University of Zagreb Faculty of Organization and Informatics, Varaždin, Croatia

Vice-president and Secretary, later PhD Students' Representative at Student Council Vice-president and Secretary from Oct 2010 to June 2013. PhD Students' Representative from Oct 2015 to Dec 2018.

DRIVING LICENCE

Driving Licence: B

NETWORKS AND MEMBERSHIPS

[2015 – Current] Varaždin HR

UNIZG FOI Artificial Intelligence Laboratory I am an active member of the AI Lab at University of Zagreb Faculty of Organization and Informatics.

[Aug 2023 – Current] The Hague NL

Confederation of Laboratories for Artificial Intelligence Research in Europe: Rising Researchers Network I am a member of the CAIRNE Rising Researchers Network.

ORGANISATIONAL SKILLS

Organisational skills

- opportunity-welcoming achievement-oriented team-player who can lead, motivate, and innovate
- planning skills, management and leadership skills developed on various occasions
- knowledge acquisition, transfer and utilization skills trained continuously

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- by nature friendly, welcoming and communicative to both known and yet-to-be-known people, flourishing in diverse and international environment