Bojan Božić

48 Railway Road, Dublin 13, Ireland, +353 (0)85 1999 423
bojan.bozic@dit.ie, https://bozicb.github.io/about/

OBJECTIVE   An Assistant Lecturer in Computer Science (permanent position) to endeavour research and teaching in the field of computer science with special interests in data analytics, machine learning, natural language processing, semantic web, and time series processing.

EDUCATION

- *PhD,* Doctoral Studies
  University of Vienna, Vienna, Austria, June 2014 (summa cum laude)
  Concentration: Semantic Web and Time Series Processing

- *Master of Science in Engineering,* Software Engineering and Multimedia
  University of Applied Sciences Technikum, Vienna, Austria, June 2008
  Concentration: Application Development

- *Bachelor of Science in Engineering,* Information and Communication Systems and Services
  University of Applied Sciences Technikum, Vienna, Austria, June 2007
  Concentration: Telecommunication and Internet Technologies

COMPUTER SKILLS   *Programming Languages & IDEs:* R, Java, Python, Prolog, JavaScript, PHP, .NET, C/C++, Perl, Scala, Ruby; Vi, Emacs, Visual Studio, Eclipse, Netbeans, Anjuta, Mono.
Operating Systems: UNIX, Linux, Windows, Solaris, BSD.
Learning Platforms: webcourses, ILIAS, Moodle, CIS.
Other Tools: NeOn Toolkit, Protégé, elasticsearch, kibana.

EXPERIENCE   *CeADAR Research Fellow*   June 2017 - present
School of Computing, Dublin Institute of Technology
- Research in the field of data analytics (machine learning, statistics, time series processing, etc.)
- Supervision of MSc theses
- Definition and setup of new research projects

Research Fellow   February 2015 - June 2017
School of Computer Science and Statistics, Trinity College Dublin
- Development of ontologies for data and software lifecycle management
- Development of a quality service for ontology validation in Prolog
- Development of a platform for semantic data curation in digital humanities

Lecturer   October 2014 - June 2015
Business Informatics, University of Vienna

- Mathematical Basis Techniques

Lecturer   January 2010 - June 2015
IT Infrastructure Management; Information, Media, and Communication, University of Applied Sciences Burgenland
- Software Engineering
- Distributed Systems
- Applied Projects for Networks
- Supervisor for Bachelor and Master Theses

Scientist   March 2009 - February 2015
Safety and Security Department, Austrian Institute of Technology
- Development of a multi-domain language for time series processing in Python
- Development of a sensor web enablement framework
- Leadership of a technical team
- Leadership of a work package and scientific work in a European project in the field of Semantic Web

Software Development Engineer   January 2005 - March 2009
Philips Speech Recognition Systems, Philips Austria, Vienna, Austria
- Development of different speech recognition editors (TX, Word, RTF)
- Development of a Java/COM and .NET adapter
- Leadership of a technical team

SCIENTIFIC **Some Papers**
- B. Božić, <u>A. Rios</u>, S.J. Delany
  "Validation of Tagging Suggestion Models for a Hotel Ticketing Corpus";
  Paper: International Conference on Information Integration and Web-based Applications & Services, Yogyakarta; 19.11.2012 - 21.11.2012; in: Proceedings of the 20th International Conference on Information Integration and Web-based Applications & Services.

- R. Brennan, B. Božić, O. Gavin, M. Solanki
  "ALIGNED MetaModel Overview";
  Book Chapter In: K. Feeney et. al. (eds) Engineering Agile Big Data Systems; 2018; ISBN 9788770220163.

- K. Barry, K. Feeney, G. Mendel-Gleason, B. Božić
  Is It Joyce We Are Reading? Non-Fiction, Authorship, and Digital Humanities;
  Book Chapter In: Ebury K., Fraser J. (eds) Joyces Non-Fiction Writings. Palgrave Macmillan, Cham; 2018; pp 93-107; ISBN 978-3-319-72241-2.

- <u>B. Božić</u>
  "Simulation and Modeling of Semantically Enriched Time Series";
  Paper: 19th International Congress on Modelling and Simulation, Perth, Australia; 12.12.2011 - 16.12.2011; in "Sustaining our Future: Understanding and Living with Uncertainty", Modelling and Simulation Society of Australia and New Zealand, (2012), ISBN: 978-09872143-1-7; 7 S.

- <u>B. Božić</u>, J. Peters-Anders, G. Schimak
  "Filtering of Semantically Enriched Environmental Time Series";
  Paper: International Congress on Environmental Modelling and Software, Leipzig; 01.07.2012 - 05.07.2012; in: "Proceedings of the sixth biennal meeting of the International Environmental Modelling and Software Society", Int. Environmental Modelling and Software Society, Leipzig (2012), ISBN: 978-88-9035-742-8; S. 2395 - 2402.

- B. Božić, W. Winiwarter
  "Community Building Based on Semantic Time Series";
  Paper: International Conference on Information Integration and Web-based Applications and Services, Bali; 03.12.2012 - 05.12.2012; in: "Proceedings of the 14th International Conference on Information Integration and Web-based Applications and Services", Association for Computing Machinery, New York, (2012), ISBN: 978-1-4503-1306-3; S. 213 - 222.

- B. Božić
  "A Multi-Domain Framework for Community Building Based on Data Tagging";
  Paper: International Semantic Web Conference, Boston; 11.11.2012 - 15.11.2012; in: "The Semantic Web - ISWC 2012", Springer, Heidelberg Berlin (2012), ISBN: 978-3-642-35172-3; S. 441 - 444.

- B. Božić, W. Winiwarter
  "Ontology Mapping and Reasoning in Semantic Time Series Processing";
  Paper: International Conference on Information Integration and Web-based Applications and Services, Vienna; 02.12.2012 - 04.12.2012; in: "Proceedings of the 15th International Conference on Information Integration and Web-based Applications and Services", Association for Computing Machinery, New York, (2013); S. 443 - 452.

- B. Božić, W. Winiwarter
  "A Showcase of Semantic Time Series Processing";
  International Journal of Web Information Systems 9, no. 2 (2013): 117-141.

- B. Božić, W. Winiwarter, M. DiCiano
  "A Social Networking Platform for Semantic Time Series Processing";
  International Conference on Information Integration and Web-based Applications and Services, Hanoi; 04.12.2014 - 06.12.2014; in: "Proceedings of the 16th International Conference on Information Integration and Web-based Applications and Services", p. 97 - 107.

- B. Božić, M. Gencturk, R. Duro, Y. Kabak, G. Schimak
  "Requirements Engineering for Semantic Sensors in Crisis and Disaster Management";
  Springer International Publishing; "Environmental Software Systems. Infrastructures, Services and Applications" p. 397 - 406.

- R. Brennan, K. Feeney, G. Mendel-Gleason, B.Božić, P. Turchin, H. Whitehouse, P. Francois, T. Currie, S. Gohmann
  "Building the Seshat Ontology for a Global History Databank";
  in LNCS, H. Sack, Blomqvist, E., d'Aquin, M., Ghidini, C., Paolo Ponzetto, S., Lange, C. (eds.) (2016). (Vol. 9678)

- B. Božić, R. Brennan, K. Feeney, G. Mendel-Gleason
  "Describing Reasoning Results with RVO, the Reasoning Violations Ontology";
  Extended Semantic Web Conference, Heraklion; 29.05.-02.06.2016; in: "Linked Data Quality Workshop".

- *"Towards a knowledge driven framework for bridging the gap between Software and Data engineering";*
  Semantic Web Journal [under review].

Lectures and Labs
- *"Software Engineering";*
  Lecture: University of Applied Sciences Burgenland, Eisenstadt

- *"System Architectures, Nets, and Web Technologies";*
  Lab: University of Applied Sciences Burgenland, Eisenstadt

- *"Designing Software Systems"*;
  Lecture: University of Applied Sciences Burgenland, Eisenstadt

- *"Applied Project Software Engineering"*;
  Lab: University of Applied Sciences Burgenland, Eisenstadt

- *"Applied Project System Architectures, Nets, and Web Technologies"*;
  Lab: University of Applied Sciences Burgenland, Eisenstadt

- *"Distributed Systems"*;
  Lecture: University of Applied Sciences Burgenland, Eisenstadt

- *"Mathematical Basis Techniques"*;
  Lab: University of Vienna, Vienna

- *"Introduction to Prolog"*;
  Lab: Trinity College, Dublin

- *"Programming for Big Data"*;
  Lab: Dublin Institute of Technology, Dublin

Books
- Bleier, T.; Božić, B.; Bumerl-Lexa, R.; Da Costa, A.; Costes, S.; Iosifescu, I.; Martin, O.; Frysinger, S.; Havlik, D.; Hilbring, D.; Jacques, P.; Klopfer, M.; Kunz, S.; Kutschera, P.; Lidstone, M.; Middleton, S.E.; Roberts, Z.; Sabeur, Z.; Schabauer, J.; Schlobinski, S.; Shu, T.; Simonis, I.; Stevenot, B.; Uslnder, T.; Watson, K.; Wittamore, K. :
  "SANY - An Open Service Architecture for Sensor Networks";
  Book: SANY Consortium, ISBN 978-3-00-028571-4; 2009.

PROJECTS
- VoIP Application in Java
- VoiceXML Application in .NET
- Automated Application Control in Speech Recognition
- Time Series Processing Language in Python/Jython
- SANY - Sensors Anywhere - IST FP6 Integrated Project
- TaToo - Tagging Tool based on a Semantic Discovery Framework - FP7 Project
- Europeana Creative - creative re-use of cultural heritage metadata and content
- C2SENSE - the emergency interoperability framework
- Pelagios - Linking together the places of our past through the documents that refer to them
- ALIGNED - quality-centric, software and data engineering

MEMBERSHIPS AND REVIEWS
- Irish Conference on Artificial Intelligence and Cognitive Science (Program Committee)
- Information Integration and Web-based Applications and Services (Program Committee)
- Journal of Knowledge Management (Reviewer)
- Journal of Science and Technology Policy Management (Reviewer)
- Journal of Environmental Modeling and Software (Reviewer)
- Semantic Web Journal (Reviewer)
- World Wide Web Consortium (Member)
- Open Geospatial Consortium (Member)

- 21st International Congress on Modelling and Simulation (Session Organiser)
- 2nd International Workshop on Computational History and Data-Driven Humanities (Co-chair)
- NumFOCUS (Member)

AWARDS

- Winner of the Web Intelligence Summer School Hackathon 2014

EXTRA-CURRICULAR ACTIVITIES

- Diversity and Inclusion in Scientific Computing Subcommittee Member (NumFOCUS)
- Code First Girls instructor in Python
- Member of the Vienna Cubes, a team of autonomous soccer robots playing in the Small-Size-Soccer League (Development of the Computer Vision part)
- Member of the Union Triathlons Team Burgenland
- Member of the Volunteer Fire Fighters Oslip