**Irma Ravkic, PhD**

**(a) Professional Preparation**

University of Tuzla Tuzla, Bosnia and Electrical Engineering BS, 2009

Herzegovina

Catholic University of Leuven Leuven, Belgium Artificial Intelligence MS, 2011

KU Leuven

Catholic University of Leuven Leuven, Belgium Computer Science PhD, 2016

KU Leuven

**(b) Appointments**

*Mount Saint Mary’s University*

2018–Present Assistant Professor, Department of Physical Sciences and Mathematics

*University of California, Los Angeles (UCLA)*

2016–2018 Research Scholar

*Catholic University of Leuven*

2011-2016 Research Assistant

**(c) Publications**

A list of: (i) up to 5 publications most closely related to the proposed project; and (ii) up to 5 other significant publications, whether or not related to the proposed project. Each publication identified must include the names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication. If the document is available electronically, the Website address also should be identified.

*(i) Closely related to proposal project*

*(ii) Other significant publications*

1) I Ravkic, J Ramon, J Davis, “Learning relational dependency networks in hybrid domains”, Machine Learning, Volume 100, Issue 2-3, Pages 217-254, 2015 (https://link.springer.com/article/10.1007/s10994-015-5483-2)

2) D Nitti, I Ravkic, J Davis, L De Raedt, “Learning the structure of dynamic hybrid relational models”, 22nd European Conference on Artificial Intelligence (ECAI), Volume 285, Issue 22, Pages 1283-1290

(<https://lirias2repo.kuleuven.be/bitstream/id/>401992/;jsessionid=752746EF359E7BD41B05C03382B59BFC)

3) I Ravkic, J Ramon, J Davis, “Hybrid logical Bayesian networks”,Late Breaking Papers proceedings of the 22nd International Conference on Inductive Logic Programming, Pages 62-67, 2012

(https://lirias2repo.kuleuven.be/bitstream/id/218531/)

4) I Ravkic, M Žnidaršič, J Ramon, J Davis, “Graph sampling with applications to estimating the number of pattern embeddings and the parameters of a statistical relational model”, Data Mining and Knowledge Discovery Journal, Volume 32, 2018

(https://hal.inria.fr/hal-01725971/document)

5) I Ravkic, “Probabilistic Logical Models for Large-Scale Hybrid Domains”, PhD thesis

(https://hal.archives-ouvertes.fr/tel-01462085/document)

**(d) Synergistic Activities**

A list of up to five examples that demonstrate the broader impact of the individual's professional and scholarly activities that focuses on the integration and transfer of knowledge as well as its creation. Examples could include, among others: innovations in teaching and training (e.g., development of curricular materials and pedagogical methods); contributions to the science of learning; development and/or refinement of research tools; computation methodologies, and algorithms for problem-solving; development of databases to support research and education; broadening the participation of groups underrepresented in science, mathematics, engineering and technology; and service to the scientific and engineering community outside of the individual's immediate organization.

1) Recipient of Google Anita Borg scholarship (now WomenTechmakers: https://www.womentechmakers.com/ ) for outstanding women in computer science, 2015

Initiatives: - networking with other scholars and developing ideas to include more women into computer science.

- I organized sessions for students at KU Leuven to encourage female students to apply for Anita Borg scholarship

- via Google I helped in financing an event that promoted female role models:

https://www.aftleuven.be/events/women-in-tech/

2) Organized mock interviews for female students, 2015

Description: In cooperation with Google I organized mock interviews that matched Google engineers and female students from KU Leuven, Belgium and University of Tuzla, Bosnia and Herzegovina.

3) Lead translator for code.org for Bosnian language

4) Popularization of computer science:

I participated in several initiatives to represent machine learning research in a more popularist view:

- (2014) Intelligent Data Analysis award for the best video that explains my research to a more general public (https://www.youtube.com/watch?v=kjMyPeAq3sk)

- (2013) Popularization of computer science: "What if" video competition jury award for video "What if GPS's had an attitude?" (https://www.youtube.com/watchv=IcfpcbCUKDA&list=PLHY7JakQMptr29cRuI1x49bgqtPkXa0cX)

5) For several years and currently, I served as a reviewer and program committee member for several major computer science conferences: **AAAI** (Association for the Advancement of Artificial Intelligence), **IJCAI** (International Joint Conferences on Artificial Intelligence), **ECML-PKDD** (The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases), **AMIA** (American Medical Informatics Association).

I developed and publicly shared several algorithms associated with my research.