Curriculum Vitae

Personal data

Name:	**Nemanja Rakićević**
Date of birth:	**12/05/1988**
Place of birth:	**Novi Sad, Serbia**
Mobile phone:	**+44 77 839 669 20**
E-Mail:	**nemanja.rakicevic@gmail.com**
	n.rakicevic@imperial.ac.uk
Homepage:	**http://www.imperial.ac.uk/people/n.rakicevic**

Research interests

- Uncertainty-based efficient exploration methods
- Self-supervised robot task learning and transfer
- Deep reinforcement learning, probabilistic graphical models, temporal models

Employment and academic activities

09/2018 – 01/2019 — **Research Intern at DeepMind**

06 – 08/2017 — **Data Scientist at Human (previously CitySail)**
Developing and implementing models for real-time human personality estimation.

01/2015 – 05/2016 — **Research Assistant at iBug group, Imperial College London, UK**
Sequential probabilistic models for emotion recognition based on facial expressions and audio data. Multimodal Neural Conditional Random Fields for Behaviour Analysis.

2015 – — **Graduate Teaching Assistant, Imperial College London, UK**
Machine Learning (prof Maja Pantic),
Computing 2, Robotics (Petar Kormushev)

12/2013 – 07/2014 — **Research Engineer at RIS group, LAAS-CNRS, Toulouse, France.**
Rover locomotion diagnostics based on proprioceptive sensor feeds.

07/2013 — MSc thesis testing sessions at Japanese Aerospace Exploration Agency's (JAXA) Institute of Space and Astronautical Science on the "Cuatro" rover test bed

2011 — Team leader at the national robotics competition (6th place)

09 – 10/2010 — **Internship at "Mihajlo Pupin" Institute, Belgrade, Serbia**
Robotic gripper and small rover movement programming.
[Supervisor: Professor Aleksandar Rodić]

Education

2016 – now — **PhD Student**
Robot Intelligence Lab, Imperial College London

2011 – 2013 — **European Master On Advanced Robotics (EMARO), double degree program.**
Thesis development: Keio University, Japan
2nd year: Ecole Centrale de Nantes, grade average A
1st year: University of Genova, grade average A

2007 – 2011 — **Mechatronics, Robotics and Automatization, Faculty of Technical Sciences, University of Novi Sad.**
240 ECTS, grade average 10 [100/100]

Publications

N. Rakicevic, P. Kormushev. *"Active Learning via Informed Search in Movement Parameter Space for Efficient Robot Task Learning and Transfer"*, AURO, 2019

N. Rakicevic, P. Kormushev. "*Efficient Robot Task Learning and Transfer via Informed Search in Movement Parameter Space*", AIRW (NIPS), 2017

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. "*Multi-Modal Neural Conditional Ordinal Random Fields for Dynamic Agreement Level Classification*", ICPR, 2016

N. Rakicevic, O. Rudovic, S. Petridis, M. Pantic. "*Neural Conditional Ordinal Random Fields for Agreement Level Estimation*", WASA, 2015.

Courses and projects

MSc:	
M1	Control of Multivariable Systems, Real-Time Systems, Neural Networks, Computer Vision, Mechanical Design Methods, Optimization Techniques, Embedded Systems, Artificial Intelligence (Machine Learning), Mobile Robotics; **Group project** - building an underwater robot to compete at the NURC SAUC-E 2012 (mechanical, control and electronics design) [Supervisor: Professor Giuseppe Casalino]
M2	Vision Based Control, Advanced Modeling of Robots, Identification and Control of Robots, Humanoid and Walking Robots, Capture and Simulation of Human Motion;
Keio	Aerospace Propulsion, Mixed Reality, Space Systems Engineering; **Thesis Topic** - "Guidance, Navigation and Control for Planetary Rover" [Supervisors: Professors Masaki Takahashi, Philippe Martinet and Giuseppe Casalino]
BSc:	Electronics (analog, digital, impulse), Industrial Robotics, PLC Programming, Mechanics, Automated Control Systems, Microprocessor Electronics, Optimization Methods, Machine Mechanics (mechanisms), Components of Technological Systems (pneumatics and hydraulics); **Group project** - building a mobile robot to compete at the EUROBOT 2011 competition (group leader; electronics design, movement programming) **Thesis topic** - "Realization of the Robot Sensor System and Motion Control for the EUROBOT 2011 Competition, within the Team MAXIMILIAN" [Supervisor: Professor Branislav Borovac]

Awards and recognitions

2016 – 2020	Imperial College London President's PhD Scholarship
2011 – 2013	Erasmus Mundus scholarship laureate for the EMARO MSc programme
2010/2011	Declared best student in generation 2010/11, University of Novi Sad
2010 – 2013	"Dositeja" scholarship laureate, Ministry of Youth and Sport, Republic of Serbia
2009/2010	University of Novi Sad scholarship laureate
2008 – 2012	Annual award to exceptional students for their achievements during studies, Ministry of Education, Republic of Serbia

Skills

Computer skills	[active] Python, LaTeX, Git [passive] MATLAB, C/C++, Solid Edge, Pro/ENGINEER
Languages	Serbian, English, Italian, Spanish, French
Hobbies	Capoeira Club "Capoeira Associação Sérvia" (since 2005), Surfing, Drawing