

# Curriculum Vitae

## Personal Data

Name: Nemanja Rakićević  
Date of birth: 12/05/1988  
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## Research interests

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

## Employment and Academic activities

<b>01/2015 – 05/2016</b>	<b>Research Assistant at iBug group, Imperial College London, UK</b> Sequential probabilistic models for emotion recognition based on facial expressions. Multimodal Neural Conditional Random Fields for Behaviour Analysis
<b>2015-17</b>	<b>Teaching Assistant</b> Machine Learning (prof Maja Pantic), Computing 2, Robotics (Petar Kormushev)
<b>12/2013 – 07/2014</b>	<b>Research Engineer at RIS group, LAAS-CNRS, Toulouse, France.</b> Working on rover locomotion diagnostics, using sensor feeds
<b>07/2013</b>	Testing sessions at the Japanese Aerospace Exploration Agency's (JAXA) Institute of Space and Astronautical Science on the "Cuatro" rover test bed
<b>2011</b>	Team leader at the national robotics competition (6 <sup>th</sup> place)
<b>09/2010 – 10/2010</b>	<b>Internship at "Mihajlo Pupin" Institute, Belgrade, Serbia</b> Robotic gripper and small rover movement programming [Supervisor: Professor Aleksandar Rodić]

## Education

<b>2016 – now</b>	<b>PhD Student</b> Robot Intelligence Lab, Imperial College London
<b>2011 – 2013</b>	<b>European Master On Advanced Robotics (EMARO), double degree program.</b> Thesis development: Keio University, Japan 2 <sup>nd</sup> year: Ecole Centrale de Nantes, grade average A 1 <sup>st</sup> year: University of Genova, grade average A
<b>2007 – 2011</b>	<b>Mechatronics, Robotics and Automatization, Faculty of Technical Sciences, University of Novi Sad.</b> 240 ECTS, grade average 10 [100/100]
<b>2003 – 2007</b>	<b>"Jovan Jovanović Zmaj" Grammar school, Novi Sad.</b> Mathematical-Scientific programme

## Publications

- 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

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<b>MSc:</b>	
<b>M1</b>	Control of Multivariable Systems, Real-Time Systems, Neural Networks, Computer Vision, Mechanical Design Methods, Optimization Techniques, Embedded Systems, Artificial Intelligence (Machine Learning), Mobile Robotics; <b>Group project</b> - building an underwater robot to compete at the NURC SAUC-E 2012 (mechanical, control and electronics design) [Supervisor: Professor Giuseppe Casalino]
<b>M2</b>	Vision Based Control, Advanced Modeling of Robots, Identification and Control of Robots, Humanoid and Walking Robots, Capture and Simulation of Human Motion;
<b>Keio</b>	Aerospace Propulsion, Mixed Reality, Space Systems Engineering; <b>Thesis Topic</b> - "Guidance, Navigation and Control for Planetary Rover" [Supervisors: Professors Masaki Takahashi, Philippe Martinet and Giuseppe Casalino]
<b>BSc:</b>	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); <b>Group project</b> - building a mobile robot to compete at the EUROBOT 2011 competition (group leader; electronics design, movement programming) <b>Thesis topic</b> - "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

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

## Language skills

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Serbian	Native speaker
English	Cambridge University, Certificate of Proficiency in English, grade B (2006)
Italian	Advanced
French	Intermediate

## Other

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Computer skills	(active) Python, LaTeX (passive) MATLAB, C, C++, Solid Edge, Pro/ENGINEER
Memberships	Humanitarian Fund "Privrednik" (since 2005) An IEEE student member (since 2009)
Hobbies	Capoeira Club "Capoeira Associação Sérvia" (since 2005), Surfing, Drawing