**Curriculum Vitae**

Personal data

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

Research interests

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

Employment and academic activities

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| **06 – 08/2017**  **01/2015 – 05/2016**  **2015 –**  **12/2013 – 07/2014**  **07/2013**  **2011**  **09 – 10/2010** |  | **Data Scientist at Human (previously CitySail)**  Developing and implementing models for real-time human personality estimation.  **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.  **Graduate Teaching Assistant, Imperial College London, UK**  Machine Learning (prof Maja Pantic),  Computing 2, Robotics (Petar Kormushev)  **Research Engineer at RIS group, LAAS-CNRS, Toulouse, France.**  Rover locomotion diagnostics based on proprioceptive sensor feeds.  MSc thesis testing sessions at Japanese Aerospace Exploration Agency's (JAXA) Institute of Space and Astronautical Science on the "Cuatro" rover test bed  Team leader at the national robotics competition (6th place)  **Internship at "Mihajlo Pupin" Institute, Belgrade, Serbia**  Robotic gripper and small rover movement programming.  [Supervisor: Professor Aleksandar Rodić] |

Education

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| **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] |
| **2003 – 2007** |  | **"Jovan Jovanović Zmaj" Grammar school, Novi Sad.**  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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| **MSc:**  **M1**  **M2**    **Keio** |  | 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]  Vision Based Control, Advanced Modeling of Robots, Identification and Control of Robots, Humanoid and Walking Robots, Capture and Simulation of Human Motion;  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

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

Skills

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