Dr Sergiy Bogomolov
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PhD student positions in Computer Science in the Australian National University

Dr Sergiy Bogomolov (www.sergiybogomolov.com) offers an opportunity to pursue a PhD degree in Computer Science in his research group to work on a range of topics in the area of **trusted autonomy**.

Possible research topics are as follows:

- **Development of algorithms to control autonomous systems** ("Which steps should we undertake to steer an autonomous vehicle from point A to point B?")

- **Safety and dependability of autonomous systems** ("How to ensure safety of autonomous systems, e.g., based on the machine learning algorithms?")

Applicant profile:

- **Passion for efficient algorithms.** Excellent programming skills in C/C++, Java, Matlab and/or other programming languages.

- **Strong mathematical background.** Depending on a particular research project, knowledge of discrete mathematics, linear algebra, theory of differential equations and/or other areas of math will be beneficial.

- **Bachelor** or **Master** degree in Computer Science, Mathematics or related areas. Note that in order to pursue a PhD program in Australia, **an applicant should only have a Bachelor degree**, i.e., there is no need for a Master degree.

University rating — 20th in the world by the 2018 QS World University Rankings.

Duration of PhD studies — 3.5 years.

Financial support:

PhD scholarship is about **27,000 AUD/year**. In addition, there are opportunities to earn extra **5,000 AUD/semester** as a teaching assistant. The University will also cover the attendance of conferences and further expenses related to the PhD program.

Career development:

PhD students will be given a chance to pursue an internship (1-3 months) in partner research labs in universities or companies in Australia, Germany, France, Austria and the US. In this way, PhD students will be able to extend their professional network and get a better insight into possible career options upon graduation. Therefore, after the graduation PhD students will be well equipped for a career in both academia and industry**.**

Application process:

Please send your application (including your CV along with a motivation letter and transcripts) to Dr Sergiy Bogomolov (sergiy.bogomolov@anu.edu.au).