



# Petar Veličković




PhD Student in Machine Learning and Bioinformatics

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## Education

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 2016–present	<b>Trinity College, University of Cambridge</b> Cambridge, United Kingdom <i>Doctor of Philosophy (PhD), Machine Learning and Bioinformatics</i> <ul style="list-style-type: none"><li>~ Research proposal: “<i>Developing machine learning algorithms on complex networks</i>”</li><li>~ Supervised by Dr Pietro Liò and Dr Thomas Sauerwald (second adviser)</li></ul>
 2012–2015	<b>Trinity College, University of Cambridge</b> Cambridge, United Kingdom <i>Bachelor of Arts (BA Hons. (Cantab.)), Computer Science</i> <ul style="list-style-type: none"><li>~ Results:<ul style="list-style-type: none"><li>– Part IA: Class I (rank 10/83)</li><li>– Part IB: Class I (rank 13/80)</li><li>– Part II : Class I (rank 9/74)</li></ul></li><li>~ Final-year dissertation: “<i>Molecular multiplex network inference</i>” (mark 80/100)</li></ul>
 2008–2012	<b>Matematička gimnazija</b> Belgrade, Serbia <i>Mathematical Grammar School</i> <ul style="list-style-type: none"><li>~ GPA: 5.00/5.00</li><li>~ Final-year project: “<i>Development of a software emulator for the GameBoy console</i>”</li></ul>

## Work Experience

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 2016–present	<b>University of Cambridge</b> Cambridge, United Kingdom <i>Research Assistant in Computational Biology</i> <ul style="list-style-type: none"><li>~ Computer Laboratory   Artificial Intelligence Group</li></ul>
 Jun–Sep 2015	<b>Jane Street Europe Limited</b> London, United Kingdom <i>Software Developer Intern</i> New York, United States <ul style="list-style-type: none"><li>~ Development of a translator from a new S-expression based linear temporal logic (LTL) query language into a form recognisable by an existing LTL query solver</li><li>~ Development of an algorithm and model implementation that automates a critical process within a distributed system used for the purposes of facilitating trading</li></ul>
 Jun–Aug 2014	<b>University of Cambridge</b> Cambridge, United Kingdom <i>Undergraduate Researcher</i> <ul style="list-style-type: none"><li>~ Computer Laboratory   Computer Architecture Group</li><li>~ Development of hardware and tools for debugging and tracing, as part of the ongoing CHERI research project (<a href="http://chericpu.org">http://chericpu.org</a>)</li></ul>
 Jun–Sep 2013	<b>Microsoft Development Center Serbia</b> Belgrade, Serbia <i>Intern Software Design Engineer</i> <ul style="list-style-type: none"><li>~ SQL Server Team   Service Foundation Division</li><li>~ Worked on development of the prototype for a new C# and WCF-based stress testing tool on SQL Azure production clusters</li></ul>

## Publications

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December 2015 **Molecular multiplex network inference using Gaussian mixture hidden Markov models**  
**VELIČKOVIĆ, P.** AND LIÒ, P.  
*Journal of Complex Networks Advance Access*, doi:10.1093/comnet/cnv029

## Honours & Awards

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January 2016 **Finalist** Cambridge, United Kingdom  
*Hack Cambridge—Major League Hacking event*  
~ Member of team Viral: <http://devpost.com/software/viral>  
~ Nominated as one of the top 7 projects (out of ~100 participating teams)
- ~  
November 2014 **ACM-ICPC NWERC 2014 — Bronze Medal** Linköping, Sweden  
*Association for Computing Machinery*
- ~  
July 2014 **Senior Scholar** Cambridge, United Kingdom  
*Trinity College, University of Cambridge*  
~ Elected due to high performance in Part IB of the Computer Science Tripos  
~ Re-elected for another year (in July 2015) due to high performance in Part II
- ~  
July 2013 **Junior Scholar** Cambridge, United Kingdom  
*Trinity College, University of Cambridge*  
~ Elected due to high performance in Part IA of the Computer Science Tripos
- ~  
June 2012 **Best Final-year project in the area of Informatics** Belgrade, Serbia  
*Matematička gimnazija*  
~ Awarded for the best Informatics-related project in the school's 2012 generation
- ~  
May 2012 **Cambridge Overseas Trust Scholarship** Cambridge, United Kingdom  
*Cambridge Commonwealth, European and International Trust*
- ~  
May 2012 **Trinity Overseas Bursary** Cambridge, United Kingdom  
*Trinity College, University of Cambridge*
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2009–2012 **Serbian High School Competition Awards** Belgrade, Serbia  
*Mathematical and Physical Societies of Serbia*  
~ Serbian Olympiad in Informatics - Third Prize (May 2012)  
~ National Competition in Informatics - Second Prize (April 2012)  
~ National Competition in Physics - Honourable Mention (April 2011)  
~ National Competition in Mathematics - Honourable Mention (March 2010)  
~ National Competition in Physics - Honourable Mention (April 2009)

## Skills

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- Proficient C/C++, C#, Java, OCaml, L<sup>A</sup>T<sub>E</sub>X, PGF/TikZ, git, UNIX  
Algorithms, Data Structures, Machine Learning, Bioinformatics, Teaching
- Experienced MATLAB, SQL, Pascal, SystemVerilog, Bluespec, Altera Quartus, vim  
Theoretical Computer Science, Numerical Analysis
- Skilled Rust, ML, Prolog, Mercurial, gnuplot  
Natural Sciences, Probability, Kernel Programming (Linux)