

Krishna Vaidyanathan

CONTACT INFORMATION	DC 2569 Cheriton School of Computer Science University of Waterloo 200 University Avenue West Waterloo, Ontario, Canada N2L 3G1	Mobile: +1-226-978-2760 E-mail: kvaidyan@uwaterloo.ca
CURRENT POSITION	First year student of the M.Math program at the Cheriton School of Computer Science, University of Waterloo.	
ACADEMIC INTERESTS	Reconfiguration problems, parametrized algorithms, and graph coloring.	
EDUCATION	<i>University of Waterloo, Canada</i> (M.Math Computer Science) <i>PSG College of Technology, Coimbatore</i> (M.Sc. Theoretical Computer Science)	September, 2015 - May, 2017 (expected) (88.75/100) June, 2010 - May, 2015 (8.62/10)
INDUSTRY EXPERIENCE	<ul style="list-style-type: none">• Jan - July, 2015: SDE Intern, <i>Amazon Development Center, Chennai</i>, India. Worked on an internal tool to static analyze codebases by generating a graph of dependencies and isolates sections of the code that is affected by check-ins. Worked extensively on Facebook's pfff adding features relevant to the project, which was used to static code analyze. Also ported the graph from facebook/pfff to TitanDB, and wrote queries to derive insights from the graph. Code: https://github.com/krishnavaidy/pfff	
RESEARCH EXPERIENCE	<ul style="list-style-type: none">• Janaury - July, 2016: Extended a course project on Opinion Dynamics in Agent Research to a paper collaborating with Prof. Robin Cohen.• Sep, 2015 - present: Research Assistant, <i>University of Waterloo, Canada</i>. Working on reconfiguration problems in graph coloring with Prof. Naomi Nishimura.• May - July, 2014: Summer Intern, <i>Indian Statistical Institute Chennai</i>, India. Worked under the guidance of Dr. Mathew C. Francis. Worked on a few problems in Contact graphs of L-shapes in the plane and B_k-VPG graphs.• May - November, 2013: Research Intern, <i>Indian Institute of Science, Bangalore</i>, India. Worked under the guidance of Prof. L. Sunil Chandran. Investigated rainbow matchings in the class of strongly edge-colored graphs and found a bound on the maximum rainbow matchings in terms of its minimum degree.• Jan, 2013 - April, 2014: Worked on the problem of counting triangulations in non convex polygons with Prof. R.S. Lekshmi (<i>PSG College of Technology</i>).• May - June, 2012: Summer Intern, <i>Institute of Mathematical Sciences, Chennai</i>, India. During this period, attended lectures and programming classes on various important topics of Theoretical Computer Science.	
PUBLICATIONS	<ul style="list-style-type: none">• Jasine Babu, L. Sunil Chandran, Krishna Vaidyanathan. "<i>Rainbow matchings in strongly edge-colored graphs.</i>" <i>Discrete Mathematics</i> 338.7 (2015): 1191-1196.	
WORKSHOPS ATTENDED	<ul style="list-style-type: none">• March 3rd - 8th, 2014: Attended the "Advanced School on Parametrized Algorithms and Kernelizations" (ASPAK), a one week intensive school on parametrized algorithms and kernelization at the <i>Institute of Mathemtical Sciences (IMSc), Chennai</i>.• May 21st - 31st, 2012: Attended the workshop "Network Optimization and Security" conducted by <i>IMSc, Chennai</i>.	

COMPUTER
PROFICIENCY

Languages : OCaml, Python.
Backend : MySQL.
Platform : Linux, Windows.
Tools : MATLAB, LaTeX.

EXTRACURRICULAR
ACTIVITIES

- Completed levels N5 and N4 in the “Japanese Language Proficiency Test” and pursuing level N3.
- Active Toastmaster at the *Coimbatore Toastmasters Club*.

LINKS

- Github: <https://github.com/krishnavaidy>
- LinkedIn: <https://www.linkedin.com/in/krishna-vaidyanathan-07663636>