

## Samuel Chong Tay

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Charleston, SC 29412  
(631) 291-3866

<b>TODO</b>	Add more technical skills in computing skills	
<b>EDUCATION</b>	<i>Bachelor of Arts</i> <i>Kenyon College</i> <i>Major: Mathematics; Concentration: Scientific Computing</i> <i>GPA: 3.91</i> <i>Relevant Coursework:</i> Data Structures and Program Design, Parallel Computing, Computational Algebraic Coding Theory, Calculus, Linear Algebra, Mathematical Logic, Number Theory, Abstract Algebra, Real Analysis	2013 Gambier, OH
<b>HONORS AND AWARDS</b>	<i>Phi Beta Kappa Society</i> <i>Pi Mu Epsilon National Mathematics Honor Society</i> <i>Newman's Own Scholarship</i> , Kenyon College <i>Zakov Family Scholarship</i> , Kenyon College <i>John H. Dunlap IV Scholarship</i> , Kenyon College. Funding for deserving mathematics majors who have demonstrated excellence in the programming and/or use of computer applications. <i>Distinction on Senior Thesis</i> , Kenyon College, 2013 <i>The Reginald B. Allen Prize</i> , Kenyon College, 2013. Annual award to a student who the professors of the Department of Mathematics decide has done the most outstanding work in mathematics. <i>The Wendell D. Lindstrom Memorial Prize</i> , Kenyon College, 2011 <i>Undergraduate Poster Session Award</i> , Joint Mathematics Meeting, 2011	
<b>RESEARCH EXPERIENCE</b>	<i>Research Assistant</i> AstroParticule et Cosmologie <ul style="list-style-type: none"><li>Conducted research investigating the correlation of temperature variation and phase noise for LOT (LISA On Table), an optical simulator for the LISA mission, under Dr. Hubert Halloin.</li></ul> <i>Research Assistant</i> Valparaiso University <ul style="list-style-type: none"><li>Explored pattern avoidance in ternary trees (combinatorial mathematics) in a team of three undergraduate students under mentor Dr. Lara Pudwell.</li></ul>	Summer 2011 Paris, France  Summer 2010 Valparaiso, IN
<b>TEACHING EXPERIENCE</b>	<i>Math Tutor</i> Independent Support Services <ul style="list-style-type: none"><li>Tutored an autistic client in math and successfully increased placement exam scores, allowing the client to pursue their desired program at the SUNY Nassau Community College.</li></ul> <i>Lead Tutor</i> Kenyon College, Math and Science Skills Center <ul style="list-style-type: none"><li>Attend class and assist with teaching Calculus and Maple syntax.</li></ul>	Summer 2012 Rock Hill, NY  January 2011 - May 2013 Gambier, OH

**WORK  
EXPERIENCE**

*Software Engineer*  
Wrinkl, Inc.

August 2017 - Present  
Charleston, SC

- Full stack development of a websocket-driven chat application in Haskell.
- Leverage advanced type system features to achieve a high level of code safety.
- Languages: Haskell, Nix.

*Applications Engineer*  
Blue Acorn

May 2014 - February 2017  
Charleston, SC

- Developed reusable modules in an object oriented MVC eCommerce framework.
- Contributed to internal infrastructure in the form of deployment tools, Hipchat addons, and a docker composition-machine management tool.
- Languages: PHP, Javascript, Bash.

**COMPUTER  
SKILLS**

*Languages:* Fluent in Haskell, Javascript, PHP, Python, C++. Experience with Bash, C.

*Operating Systems:* Linux and Mac OS.

**PUBLICATIONS**

*Pattern Avoidance in Ternary Trees*

Nathan Gabriel, Katherine Peske, Lara Pudwell, and Samuel Tay

Journal of Integer Sequences 15 (2012) 12.1.5.

<http://arxiv.org/abs/1110.2225>