

# Philip Taffet

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<b>EDUCATION</b>	<b>Rice University</b> , Ph.D. Computer Science, Aug 2021 <i>Techniques for Measurement, Analysis &amp; Optimization of HPC Communication Performance</i> GPA: 4.00
	<b>Rice University</b> , M.S. Computer Science; May 2018 <i>Understanding Congestion in High Performance Interconnection Networks Using Sampling</i> GPA: 4.33
	<b>Rice University</b> , B.S. Computer Science, B.S. Mathematics; May 2017 <i>Summa Cum Laude, Distinction in Research and Creative Works</i> GPA: 4.08
<b>SKILLS</b>	<b>Languages and frameworks:</b> C#, C++, Python, MPI, OpenMP, Java <b>Other technologies:</b> Mathematica, Windows Server, Linux, Git, SQL, Vim <b>Language:</b> Fluent in Spanish
<b>EXPERIENCE</b>	<b>Jump Trading</b> Research and Development Architect, <i>Re&amp;D Team</i> 2021-Present
	<b>Jump Trading</b> Production Engineering Intern, <i>Linux/Re&amp;D Teams</i> Summer 2019 <ul style="list-style-type: none"><li>Applied insights from my research to boost InfiniBand fabric performance</li><li>Built and integrated tooling for proactively addressing fabric health issues</li></ul>
	<b>Lawrence Livermore Nat'l Lab</b> Summer Student, <i>Livermore Computing</i> Summer 2018, Summer 2017 <ul style="list-style-type: none"><li>Designed, executed, and analyzed experiments to explore the impact of network locality and congestion on performance of parallel applications</li><li>Research selected as best student poster finalist at SC 2017 conference</li></ul>
	<b>Chevron Corp.</b> HPC Analyst Professional Intern, <i>Emerging Technologies Team</i> Summer 2016 <ul style="list-style-type: none"><li>Evaluated HPC performance analysis tools by creating a set of mini-programs that exhibit common performance issues</li><li>Analyzed and suggested performance improvements to HPC applications</li></ul>
	<b>Microsoft Corp.</b> Software Engineering Intern, <i>Azure Hyper-Scale Compute Team</i> Summer 2015 <ul style="list-style-type: none"><li>Designed, built, and integrated a browser-based status monitoring and management portal for Azure Service Fabric clusters</li><li>Work featured in Day 2 Keynote presentation at BUILD 2016</li></ul>
<b>ENTREPRE-NEURSHIP</b>	<b>Steward Technology, Inc.</b> Co-founder 2015-2018 <ul style="list-style-type: none"><li>Co-founded profitable software startup delivering real-time press event analytics for the automotive public relations industry</li><li>Interfaced with customers, participated in strategic planning, developed and integrated mobile and cloud applications</li></ul>
	<b>Windows Store Application Programmer</b> 2010-2012, Fall 2013-2018 <ul style="list-style-type: none"><li>Created and published several apps for the Windows app store</li><li>Over 75,000 total downloads and over \$12,000 in revenue</li></ul>
<b>SELECTED PAPERS AND POSTERS</b>	<b>P. Taffet</b> , J. Mellor-Crummey, "Understanding Congestion in High Performance Interconnection Networks Using Sampling" at SC19
	<b>P. Taffet</b> , J. Mellor-Crummey, "Lightweight, Packet-Centric Monitoring of Network Traffic and Congestion Implemented in P4" at HOTI 2019
	<b>P. Taffet</b> , I. Karlin, "Understanding the Impact of Fat-Tree Network Locality on Application Performance" at SC17 SRC <i>Best Student Poster Finalist</i>
<b>HONORS</b>	<ul style="list-style-type: none"><li>Invited Student at Salishan Conference on High Speed Computing, 2019</li><li>Winner of Ken Kennedy Institute Cray Graduate Fellowship, 2018</li><li>Senior Merit Award for Computer Science, Rice Engineering Alumni, 2017</li><li>51<sup>st</sup> place worldwide, ICPC World Finals programming contest, 2016</li><li>344<sup>th</sup> place nationally, W. L. Putnam Mathematical Competition, 2015</li></ul>