

# Sam Donghyuk Kim

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<b>Education</b>	<b>Duke University   Durham, N.C.</b>	<b>Expected May 2021</b>
	<i>B. S. in Biology, B. A. in Computer Science, Minor in Computational Biology and Bioinformatics</i> <ul style="list-style-type: none"><li>· Elements of Machine Learning, Computational Genomics, Probability, Linear Algebra</li><li>· <b>GPA 3.95/4.00</b>, Dean's List with Distinction</li><li>· Credit Suisse Sustainable Impact Award, Undergraduate Research Support Assistantship, U.S. Presidential Scholarship Semifinalist</li></ul>	
<b>Experience</b>	<b>Software Engineering Fellow   U.S. Department of Defense</b>	<b>Sept. 2019 – Present</b>
	<ul style="list-style-type: none"><li>· Building iOS/Android app to replace Special Ops combat medics' outdated books with customized, up-to-date medical reference materials, using C# and Xamarin.</li><li>· Working through X-Force Fellowship at National Security Innovation Network.</li></ul>	
	<b>Research Assistant   Raluca Gordân Lab, Duke University</b>	<b>Aug. 2019 – Present</b>
	<ul style="list-style-type: none"><li>· Analyzing public genome data using Python and Bash to investigate if transcription factor-binding can prevent repair enzymes from accessing damaged DNA.</li></ul>	
	<b>Data Science Fellow   National Institutes of Health</b>	<b>June – Aug. 2019</b>
	<ul style="list-style-type: none"><li>· Led project to characterize the NIH-funded workforce in response to congressional inquiries, using grant reports and machine-learning techniques.</li><li>· Introduced non-technical team to programming, including R and tidyverse.</li><li>· Worked through Civic Digital Fellowship.</li></ul>	
	<b>Research Assistant   Duke Malaria Collaboratory</b>	<b>May 2018 – May 2019</b>
	<ul style="list-style-type: none"><li>· Analyzed epidemiological data with a log-risk regression model in R to find the best strategy for eliminating malarial "hotspots."</li><li>· Extracted genomic DNA from 3,000+ human blood and mosquito samples to uncover malaria transmission patterns, optimizing protocol in the process.</li></ul>	
	<b>Analysis of Campaign Finance Data   Sanford School of Public Policy</b>	<b>Aug. – Dec. 2018</b>
<b>Activities</b>	<ul style="list-style-type: none"><li>· Reported that senior U.S. Representative received millions from corporations under their committee's jurisdiction, using analyses of Federal Election Commission records.</li><li>· Reported that their campaign spending patterns signaled worry about primary challenges.</li></ul>	
	<b>Vice President   Association for Computing Machinery, Duke Chapter</b>	<b>Apr. 2019 – Present</b>
	<ul style="list-style-type: none"><li>· Maintaining relations with CS community, and helping recruit underrepresented students.</li></ul>	
	<b>Director of Development   Triangle Debate League</b>	<b>Apr. 2019 – Present</b>
	<ul style="list-style-type: none"><li>· Writing grants to fund the local charity, which supports underprivileged high school debaters.</li></ul>	
	<b>Senior Health &amp; Science News Reporter   The Chronicle</b>	<b>Sept. 2017 – May 2019</b>
	<ul style="list-style-type: none"><li>· Communicated complex scientific discoveries to public in weekly stories, and edited articles.</li></ul>	
<b>Skills</b>	<b>Programming</b>	Python, Java, C/C++, C#, JavaScript, Bash scripting
	<b>Data Analysis</b>	R, SQL, AWK, VBA
	<b>Software</b>	Jupyter, Xamarin, RMarkdown, PL/SQL Developer, Git, Adobe Illustrator
	<b>Interests</b>	certified lifeguard, amateur K-pop dancer, Sankey diagram enthusiast