

Sam Donghyuk Kim

sam.kim@duke.edu
(919) 576-0795
linkedin.com/in/sdk
www.samkim.io

Education	Duke University Durham, N.C.	Expected May 2021
	<i>B. S. in Biology, B. A. in Computer Science, Minor in Computational Biology and Bioinformatics</i> <ul style="list-style-type: none">· Coursework: Machine Learning, Computational Genomics, Probability, Linear Algebra· GPA 3.95/4.00, Dean's List with Distinction· Credit Suisse Sustainable Impact Award, Undergraduate Research Support Assistantship, U.S. Presidential Scholarship Semifinalist	
Experience	Software Engineering Fellow U.S. Department of Defense	Sept. 2019 – Present
	<ul style="list-style-type: none">· Building iOS/Android app to replace Special Ops combat medics' outdated books with customized, up-to-date medical reference materials, using C# and Xamarin.· Co-leading back-end development in 5-member team.· Working through X-Force Fellowship at National Security Innovation Network.	
	Research Assistant Raluca Gordân Lab, Duke University	Aug. 2019 – Present
	<ul style="list-style-type: none">· Conducting genome analyses from public patient data using Python and Bash to confirm newly discovered cause of cancer, attributed to body's own transcription factor-binding.	
	Data Science Fellow National Institutes of Health	June – Aug. 2019
	<ul style="list-style-type: none">· Led 4-member project to describe scientists funded by the federal agency, using machine-learning techniques in R. Results may help inform Congress and automate future analyses.· Introduced non-technical team to programming, including R and tidyverse.· Worked through Civic Digital Fellowship.	
Projects	Research Assistant Duke Malaria Collaboratory	May 2018 – May 2019
	<ul style="list-style-type: none">· Designed a log-risk regression model to uncover malaria transmission patterns from genomic data and find the best strategy for eliminating disease "hotspots" in Kenya.· Extracted genomic DNA from 3,000+ human blood and mosquito samples.	
	Analysis of Campaign Finance Data Duke Sanford School of Public Policy	Aug. – Dec. 2018
	<ul style="list-style-type: none">· Reported that senior U.S. Representative received \$615,000 from corporations under his committee's jurisdiction, using analyses of Federal Election Commission records in Python.· Correctly predicted that his spending patterns signaled an imminent primary challenge.	
	Vice President Association for Computing Machinery, Duke Chapter	Apr. 2019 – Present
Activities	<ul style="list-style-type: none">· Maintaining relations with CS community, and helping recruit underrepresented students.	
	Director of Development Triangle Debate League	Apr. 2019 – Present
	<ul style="list-style-type: none">· Writing grants to fund the local charity, which supports underprivileged high school debaters.	
	Senior Health & Science News Reporter The Chronicle	Sept. 2017 – May 2019
	<ul style="list-style-type: none">· Communicated complex scientific discoveries to public in weekly stories, and edited articles.	
Skills	Programming	Python, Java, C/C++, C#, JavaScript, Bash scripting
	Data Analysis	R, SQL, AWK, VBA
	Software	Jupyter, Xamarin, RMarkdown, PL/SQL Developer, Git, Adobe Illustrator
	Interests	certified lifeguard, amateur K-pop dancer, Sankey diagram enthusiast