

Sam Donghyuk Kim

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

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">· Elements of Machine Learning, Computational Genomics, Host-Pathogen Interactions· 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 Department of Defense	Sept. 2019 – Present
	<ul style="list-style-type: none">· Building mobile app to provide Special Ops medics deployed abroad with up-to-date, customized medical reference materials.· 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">· Investigating role of DNA transcription in causing cancer, using genomic analyses.	
	Data Science Fellow National Institutes of Health	June – Aug. 2019
	<ul style="list-style-type: none">· Led project to characterize the NIH-funded workforce in response to congressional inquiries using grant reports and machine-learning techniques.· Introduced SQL-heavy team to R and tidyverse programming.· Worked through Civic Digital Fellowship.	
	Research Assistant Duke Malaria Collaboratory	May 2018 – May 2019
	<ul style="list-style-type: none">· Analyzed epidemiological data with a log-risk regression model to find the best strategy for eliminating malarial “hotspots.”· Extracted genomic DNA from 3,000+ human blood and mosquito samples to uncover malaria transmission patterns, optimizing protocol in the process.	
	Analysis of Campaign Finance Data Sanford School of Public Policy	Aug. – Dec. 2018
Activities	<ul style="list-style-type: none">· Reported that senior U.S. Representative received millions from corporations under their committee's jurisdiction, using analyses of Federal Election Commission records.· Reported that their campaign spending patterns signaled worry about primary challenges.	
	Vice President Association for Computing Machinery, Duke Chapter	Apr. 2019 – Present
	<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">· Explained complex scientific discoveries to the public in weekly stories, and edited articles.	
Skills	Programming	Python, Java, C, JavaScript, HTML/CSS, Bash
	Data Analysis	R, SQL, VBA
	Software	Jupyter, RMarkdown, PL/SQL Developer, Git, Adobe Illustrator
	Wet Bench	Sanger/Illumina sequencing, PCR, real-time PCR, gel electrophoresis, gel purification, DNA cloning, differential staining, cell culture
	Interests	certified lifeguard, amateur K-pop dancer, Sankey diagram enthusiast