Kevin C. Song

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EDUCATION

University of Chicago | Chicago, IL | *Ph.D. Biophysics, GPA: 3.59/4.00* Feb 2018 (Expected)
GRE: 167 Quantitative, 157 Verbal Reasoning, 4.5 Analytical Writing
Relevant Coursework: Machine Learning and Large Scale Data Analysis

University of Kansas | Lawrence, KS | *B.S. Chemical Engineering with Honors and Distinction, GPA: 3.82/4.0* May 2012
Tau Beta Pi (Engineering honors society; top 1/8th of junior class)

AWARDS & HONORS

National Science Foundation (NSF) Graduate Fellowship (UChicago, 2014 - 2017)
- Competitive national award with 3 years of funding (~$200k) based on scientific merits and impacts in local community

Goldwater Scholar (University of Kansas, 2010)
- Competitive national award that annually honors ~300 sophomores and juniors excelling in science and engineering

K-INBRE Undergraduate Research Fellow (University of Kansas, 2010)
- Awarded to top undergraduate researchers in the state of Kansas based on scientific research

PROFESSIONAL EXPERIENCE

University of Chicago | Chicago, IL | *Graduate Research Assistant* Sep 2012 - present
- Initiated the first collaborative study on the folding of potassium channel monomers using molecular dynamics simulations, machine learning algorithms and experimental methods
- Designed and led a workshop teaching 6 incoming biophysics students how to use python, shell, and cloud computing
- Selected to represent 30+ biophysics students in the Biological Sciences Division's Dean's Council, organizing professional and social events and resolving issues related to student health care and unionization
- Published 2 student newspaper articles ("Tiny Microbes, Giant Impact," and "Uncovering Nature's Solar Energy Machines") in the Chicago Maroon explaining scientific research to non-scientific audiences

University of Kansas | Lawrence, KS | *Undergraduate Research Assistant* May 2006 – Sep 2012
- Developed new lipid models that computational chemists use (www.charmm-gui.org), resulting in 181 citations since 2014

LEADERSHIP EXPERIENCE

Art of Science | Chicago, IL | *Co-Founder* Sep 2013 - present
- Founded an annual science art show that provides graduate students and post-doctoral researchers the opportunity to explain their research and connect to audiences outside of their field of study
- Raised $2000 annually by writing and presenting a proposal to the Graduate Council at the University of Chicago
- Started a collaboration with Second Fridays and Northwestern University to host the science art show in Pilsen, drawing 500+ people and garnering recognition in Second Fridays Newsletter and the Chicago Maroon

Communicating Science Conference (ComSciCon) - Chicago | Chicago, IL | *Founding Member* Sep 2014 - Aug 2015
- Established a conference to engage graduate students in all science related disciplines in a leadership-training program to help them communicate complex and technical concepts to diverse audiences
- Raised $6,500 out of $12,000 budget by writing and presenting a grant proposal to University of Chicago Graduate Council
- Recruited 3 experts including Shannon Heffernan, WBEZ reporter/producer, for a panel in science communication using multimedia and led the panel discussions

Science and Technology Outreach and Mentoring Program (STOMP) | Chicago, IL | *Group Leader* Oct 2012 - May 2015
- Managed and led a group of 3 undergraduate and graduate students to design quarterly science curriculum and plan weekly science lessons, demonstrations, and activities for K-6 students in the south side of Chicago

ADDITIONAL INFORMATION

Skills: Python (Numpy, Scipy, Pandas, Scikit-learn, Matplotlib, Seaborn, PySpark), SQL, Machine Learning, Git, Bash Shell scripting, Microsoft Office Suite. Fluent in Korean

Hobbies & Interests: Competitive basketball and soccer player (Managed and played in 4 UChicago intramural championship teams), Amateur photographer (portraits I have taken: biophysics.uchicago.edu/the-students)