Kevin C. Song

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EDUCATION

University of Chicago | Chicago, IL | *Ph.D. Biophysics, GPA: 3.59/4.00* Feb 2018 (Expected)
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 between two labs that have never worked together before
- 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 232 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), R, 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)