

# SASHA JOHNSON-FREYD

Social Science Research Professional | Stanford Center on Longevity | johnsonfreyd@gmail.com | 541.915.2236 | johnsonfreyd.com

## EDUCATION

**Harvard University** | 2011-2015 | A.B. Organismic and Evolutionary Biology | *magna cum laude*  
with additional courses in Engineering Sciences and Women and Gender Studies.

## SCIENTIFIC PUBLICATIONS

**Invited commentary** | Johnson-Freyd, S., & J.J. Freyd. 2012. "Revenge and Forgiveness or Betrayal Blindness?" *The Behavioral and Brain Sciences*, 36:23-24.

**Peer-reviewed article** | Johnson-Freyd, S. 2011. "Direct paternal care and aggression: an empirical exploration using the Standard Cross-Cultural Sample." *Journal of Aggression, Conflict, and Peace Research*, 3:162-172.

**Figures** | Johnson-Freyd, S. 2016. "Figure 1: Deliver gRNA and Cas9 with lipofection," "Figure 2: Deliver gRNA and Cas9 with electroporation," & "Figure 3: Deliver gRNA and Cas9 with lentiviral transduction." Figure published in: Shen, H. 2016. "How to express CRISPR in your target cells." *Benchling blog*. <https://blog.benchling.com/how-to-express-crispr-in-your-target-cells/>

**Figure** | Gómez, J. M., & S. Johnson-Freyd. "CBTT Flowchart." Figure published in: Gómez, J. M. 2015. "Contextualizing trauma: In pursuit of culturally relevant research." *Trauma Psychology Newsletter* (American Psychological Association, Division 56), 10(1):40-44.

**Figure** | Johnson-Freyd, S. & Gómez, J. M. "CBTT Schematic." Figure contained in: Gómez, J. M. (under review). "Introducing cultural betrayal trauma theory: A critical review, a new approach."

## AWARDS AND HONORS

**David McCord Prize** | Harvard University | 2015  
Selected at graduation, for leadership and contribution to the arts at Harvard.

**High Honors** | Department of Organismic and Evolutionary Biology | Harvard University | 2015

**Harvard College Research Program** | Spring 2014 | Harvard University  
Grant for laboratory research in Professor Naomi Pierce's laboratory.

**Harvard College Research Program** | January 2014 | Harvard University  
Grant for field work in Singapore in collaboration with a graduate student in Professor Naomi Pierce's laboratory.

**MLK Jr. Award for Justice, Equality, And Civil Rights** | South Eugene High School | 2010

## RESEARCH EXPERIENCE

**Social Science Research Professional** | Financial Security Division | Stanford Center on Longevity  
Stanford University | 2016-present

Collaborate with researchers and industry partners to study Americans' long lives, and how to improve them. Current project highlights include: a collaboration with the international HR consultant firm Mercer to examine the productivity of age-diverse teams in the workforce; and an independent project about the availability of retirement savings programs across industries for low-middle income Americans. I also produce educational materials and publications to "influence the influencers" to help re-design long life.

**Undergraduate Faculty Aide** | Professor David Haig | Organismic and Evolutionary Biology  
Harvard University | 2013-2015

Assisted in developing mathematical theories of natural selection, with a focus on cooperation, competition, and symbiosis.

**Undergraduate Researcher** | Professor Naomi Pierce | Organismic and Evolutionary Biology  
Harvard University | 2013-2014

Why did the symbiosis between carnivorous pitcher plants and jungle frogs evolve? In a project driven by theoretical questions of natural selection, I developed a quantitative technique to study the symbiosis between developing carnivorous pitcher plants and frogs, including through a \$3,300 grant I received from the Harvard College Research Program for field work in Singapore.

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**Undergraduate Researcher** | Comparative Lactation Laboratory, Professor Katie Hinde | Human Evolutionary Biology  
Harvard University | 2011-2013

Helped set up a new laboratory, and then collaborated with postdoc Amy Skibieli to study the associations between milk composition and infant outcome in Rhesus monkeys in order to better understand relational aspects of infants' environments.

**Independent Researcher**

What effect does infant-father closeness have on societal aggression? I analyzed anthropological data from the Standard Cross-Cultural Sample, and published a sole-authored article in the *Journal of Aggression, Conflict, and Peace Research*.

**Research Assistant** | Dr. Heather McClure

Oregon Social Learning Center | 2010-2011

Coded Spanish-language surveys to quantify stress and family dynamics in immigrant populations in Oregon.

## TEACHING EXPERIENCE

**Substitute Lead Instructor** | Galileo Summer Quest | Palo Alto & San Francisco, CA | June 2016

I taught eight middle schoolers a one-week course called "Inventor's Workshop," that focused on design methodology in electrical and structural engineering.

**Art Teacher** | Imagine That | Eugene, OR | Summers, 2012-2016

Lead art instructor and creativity facilitation for students ages 6-13.

**Course Assistant** | ES50: Introduction to Electrical Engineering | Harvard University | Fall 2014

I supervised the electrical engineering lab and helped students with their final projects.

**Director** | Sasha Camp | Eugene, OR | July 2012

I developed a three-day math and science curriculum for third-grade girls to supplement what they were learning in elementary school and to encourage their growth in mathematics.

## COMMUNITY EXPERIENCE

**Director & Choreographer** | Harvard TAPS | 2013-2015

Creative and logistical leader of a 20-person tap dance performance troupe.

**Captain** | Dudley Intramural Volleyball Team | Harvard University | Spring 2015

I led the 18-person team through practices and games to win second place in the league.

**Points Steward** | Dudley Co-operative House | Harvard University | Fall 2014

Residents of the 32-person student cooperative living house spend ~6 hours/week doing chores such as meal preparation, cleaning, and finance management; my peers elected me to oversee the chore system and ensure that the house ran smoothly every day.

## DESIGN EXPERIENCE

**Social Science Research Professional** | Stanford Center on Longevity | July 2016-present

My current role includes data visualization (using Tableau), communication design, and production management of publications and presentations for the Stanford Center on Longevity.

**Graphic Design Intern** | Foundation for Sustainable Development | San Francisco, CA | Spring 2016

Print and web materials to encourage volunteer and donor participation in global sustainable development projects with FSD.

**Freelance Graphic Designer** | Boston, MA and San Francisco, CA | 2015-2016

Graphic design for educational technology start-ups in the Bay Area and for student groups at Harvard University.

## TECHNICAL SKILLS

Adobe Creative Suite, data analysis using Excel & SPSS, survey design and implementation using Qualtrics, data visualization with Tableau, programming in C and OCAML, wet lab competency, GIS with ArcMap and GeoDa, probability and statistical theory, experimental design.