

## Education

### **Stony Brook University (Stony Brook, NY)**

Doctor of Philosophy in experimental psychology (advisor: Christian Luhmann) 2016

Master of Arts in psychology 2013

### **Allegheny College (Meadville, PA)**

Bachelor of Science, psychology and mathematics double major 2011

Valedictorian (class rank 1/589, GPA 4.0/4, *summa cum laude*)

## Research

My research interests lie in social psychology, decision-making, health (particularly alcohol use), and sexuality. I use data-analytic methods from both statistics and machine learning, with an emphasis on predictive modeling. I'm also interested in open science: I make data, code, research notes, and working papers freely available on my website, Arfer.net.

## Representative current projects

Rotheram-Borus, M. J., **Arfer, K. B.**, Christodoulou, J., & Tomlinson, M. *Child health outcomes from mothers' drinking and a mentor-mother intervention in South Africa.*

**Arfer, K. B.**, O'Connor, M. J., Tomlinson, M., & Rotheram-Borus, M. J. *South African mothers' immediate and 5-year retrospective reports of drinking alcohol during pregnancy.*

Quinn, B., **Arfer, K. B.**, Gorbach, P., & Shoptaw, S. *Is there a dose-response relationship between alcohol and other substance use, involvement in HIV risk behaviors, and specific biomarkers among a prospective cohort of Los Angeles-based minority men who have sex with men?*

**Arfer, K. B.**, & Jones, J. J. *American political-party affiliation as a predictor of usage of an adultery website.*

## Peer-reviewed journal articles

Zingmond, D., **Arfer, K. B.**, Gildner, J., & Leibowitz, A. (in press). The cost of comorbidities in treatment for HIV/AIDS in California. *PLOS ONE*.

**Arfer, K. B.**, Tomlinson, M., Mayekiso, A., Bantjes, J., & Rotheram-Borus, M. J. (in press). Criterion validity of self-reports of alcohol, cannabis, and methamphetamine use among young men in Cape Town, South Africa. *International Journal of Mental Health and Addiction*.

Ethridge, P., Kujawa, A., Dirks, M. A., **Arfer, K. B.**, Kessel, E. M., Klein, D. N., & Weinberg, A. (2017). Neural responses to social and monetary reward in early adolescence and emerging adulthood. *Psychophysiology*, *54*, 1786–1799. doi:10.1111/psyp.12957

Rodriguez-Seijas, C., **Arfer, K. B.**, Thompson, R. G., Jr., Hasin, D. S., & Eaton, N. R. (2017). Sex-related substance use and the externalizing spectrum. *Drug and Alcohol Dependence*, *174*, 39–46. doi:10.1016/j.drugalcdep.2017.01.008

**Arfer, K. B.**, & Luhmann, C. C. (2017). Time-preference tests fail to predict behavior related to self-control. *Frontiers in Psychology*, *8*. doi:10.3389/fpsyg.2017.00150

**Arfer, K. B.**, Bixter, M. T., & Luhmann, C. C. (2015). Reputational concerns, not altruism, motivate restraint when gambling with other people's money. *Frontiers in Psychology*, *6*. doi:10.3389/fpsyg.2015.00848

- Rachlin, H., **Arfer, K. B.**, Safin, V., & Yen, M. (2015). The amount effect and marginal value. *Journal of the Experimental Analysis of Behavior*, *104*, 1–6. doi:10.1002/jeab.158
- Safin, V., **Arfer, K. B.**, & Rachlin, H. (2015). Reciprocation and altruism in social cooperation. *Behavioural Processes*, *116*, 12–16. doi:10.1016/j.beproc.2015.04.009
- Arfer, K. B.**, & Luhmann, C. C. (2015). The predictive accuracy of intertemporal-choice models. *British Journal of Mathematical and Statistical Psychology*, *68*, 326–341. doi:10.1111/bmsp.12049
- Rachlin, H., Safin, V., **Arfer, K. B.**, & Yen, M. (2015). The attraction of gambling. *Journal of the Experimental Analysis of Behavior*, *103*, 260–266. doi:10.1002/jeab.113
- Kujawa, A., **Arfer, K. B.**, Klein, D. N., & Proudfit, G. H. (2014). Electrocortical reactivity to social feedback in youth: A pilot study of the Island Getaway task. *Developmental Cognitive Neuroscience*, *10*, 140–147. doi:10.1016/j.dcn.2014.08.008

## Conference presentations

- Arfer, K. B.**, & Luhmann, C. C. (2013, August 7). *The predictive accuracy of intertemporal-choice models*. Paper presented at the 46th Annual Meeting of the Society of Mathematical Psychology, Potsdam, Germany.

## Posters

- Arfer, K. B.**, Tomlinson, M., Mayekiso, A., Bantjes, J., van Heerden, A., & Rotheram-Borus, M. J. (2017, June 25). *Criterion validity of self-reports of alcohol, cannabis, and methamphetamine use among young men in Cape Town, South Africa*. Poster session presented at the 40th Annual Meeting of the Research Society on Alcoholism, Denver, CO.
- Ethridge, P., Kujawa, A., **Arfer, K. B.**, Kessel, K. M., Klein, D. N., & Weinberg, A. (2016, September 23). *Monetary and social reward in early adolescence and emerging adulthood*. Poster session presented at the 56th Annual Meeting of the Society for Psychophysiological Research, Minneapolis, MN.
- Gordon, K. K., McGrath, M. R., Castro, R., Anderson, L. J., Natoli, L. J., Cohen, A. C., **Arfer, K. B.**, & Klausner, J. K. (2016, September 22). *Comparing home-collected versus clinic-collected specimens for the detection of Chlamydia trachomatis and Neisseria gonorrhoeae in anatomic sites*. Poster session presented at the 2016 STD Prevention Conference, Atlanta, GA.
- Safin, V., **Arfer, K. B.**, & Rachlin, H. (2014, May 22). *Altruism and reciprocation in the prisoner's dilemma game*. Poster session presented at the 37th Annual Meeting of the Society for the Quantitative Analyses of Behavior, Chicago, IL.

## Work experience

**Postdoctoral scholar, Global Center for Children and Families,** 2016 – present  
**University of California, Los Angeles**  
 Conducting research.

**Teaching assistant and graduate student, Stony Brook University** 2011 – 2016  
 Conducted independent research towards a PhD. Presented own research yearly in a department colloquium. Taught courses and assisted with teaching the courses of others (by delivering guest lectures, writing and proctoring exams, grading, and holding regular office hours for students). Obtained particular experience in teaching research writing, research methods, and statistics.

**Tutor, Allegheny College** 2008 – 2010  
 Tutored high-school and college students in various mathematical subjects, such as geometry, calculus, abstract algebra, and analysis.

## **Ad-hoc reviewing**

Polish Psychological Bulletin	2017
AIDS and Behavior (special issue on alcohol and HIV)	2017
Drug and Alcohol Dependence	2016, 2017
Basic and Applied Social Psychology	2016, 2017

## **Professional memberships**

- American Statistical Association
- Research Society on Alcoholism

## **Computer skills**

I have written and maintained programs in languages such as Python, Perl, JavaScript, Lua, R, MATLAB / Octave, C, and C++, and I am a core developer of the compiler for the Hy programming language. See <http://arfer.net/code>. I also have experience in web development, Linux system administration, and database management. Finally, I have experience with using Python, R, SPSS, SAS, and Excel for data analysis.

## **Honors and awards**

Honorable Mention, NSF Graduate Research Fellowship Program	2012, 2013
Stony Brook University Graduate Council Fellowship	2011
Allegheny College Departmental Honors in Psychology	2011
Allegheny College Frederick H. Steen Prize for Excellence in Mathematics	2011
Phi Beta Kappa	2010
Psi Chi	2010
Allegheny College Outstanding Junior Major in Mathematics	2010
Nominee, Barry M. Goldwater Scholarship	2009
Allegheny College Trustee Scholarship	2007