

Catharine E. Fairbairn
University of Illinois at Urbana-Champaign
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Champaign, IL 61820
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EMPLOYMENT

ASSISTANT PROFESSOR, 2015 –
Department of Psychology, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

EDUCATION

PH.D. Clinical/Biological & Health Psychology (JOINT PROGRAM) 2012 – 2015
UNIVERSITY OF PITTSBURGH

- Clinical Internship (2014-2015), Veterans Affairs Ann Arbor Healthcare System/University of Michigan
- Pre-Doctoral Fellowship in Biostatistics (2013): Department of Biostatistics, University of Oslo

M.S. Clinical/Biological & Health Psychology (JOINT PROGRAM) 2009 – 2012
UNIVERSITY OF PITTSBURGH

B.A. Psychology and Music (DOUBLE MAJOR), *summa cum laude* 2002 – 2006
BARNARD COLLEGE, COLUMBIA UNIVERSITY

HONORS

2021 **Campus Distinguished Promotion Award**, University of Illinois, campus-wide award for remarkable impact

2021-2022 **Helen Corley Petit Scholar**, University of Illinois, College of Liberal Arts and Sciences award recognizing outstanding achievement in both teaching and scholarship at time of promotion review

2020 **RSA Early Career Investigator Award**, Research Society on Alcoholism, recognizing future leaders in alcohol research

2019 **APS Rising Star Award**, Association for Psychological Science, recognizing outstanding new investigators in psychological science

2017-2019 **Lincoln Excellence for Assistant Professor Scholar**, University of Illinois, College of Arts and Sciences award recognizing distinguished early-career faculty who demonstrate the highest caliber of academic achievement

2015-2017, 2020 **List of Teachers Ranked as Excellent by Their Students**, University of Illinois.

2014 **Outstanding Student Researcher Award**, Society for the Science of Clinical Psychology
Bassell Student Award, Psychology Department University of Pittsburgh, outstanding student award,

2012-2014 **Graduate Student Merit Award**, Research Society on Alcoholism

2013 **University of Pittsburgh Nationality Program International Research Award**, \$4000 supporting international collaboration in the Biostatistics Department at the University of Oslo

2012 **E. B. Huey Research Award**, \$1,000 research grant, Psychology Department University of Pittsburgh
Diversity Travel Award, \$1,000 diversity travel grant, Psychology Department University of Pittsburgh

2009-2010 **School of Arts and Sciences Graduate Fellowship**, University of Pittsburgh

2006 **Phi Beta Kappa**, Barnard College
Barnard College Commencement Speaker

FUNDING ACTIVITY

National Institute of Alcohol Abuse and Alcoholism (R01 AA025969)

Title: “Examining the impact of stress on the emotionally reinforcing properties of alcohol in heavy social drinkers: A multimodal investigation integrating laboratory and ambulatory methods”

Role: Principal Investigator

Project Period: 9/01/2017-5/31/2022

Total costs: \$1,522,204 (total costs)

National Science Foundation Graduate Research Fellowship (0753293-006)

Funding: \$126,000 (total costs), 9/2011 – 9/2014, University of Pittsburgh

Sponsor: Michael A. Sayette and John M. Levine, Department of Psychology

Description: Supporting cross-disciplinary graduate research in social and clinical psychology

National Science Foundation Graduate Research Opportunities Worldwide (230165/F11)

Funding: \$24,147 (total costs), 8/2013 – 12/2013, University of Oslo

Sponsor: Arnaldo Frigessi and Odd O. Aalen, Department of Biostatistics

Description: Supporting international collaboration in frailty survival modeling for high-dimensional data

PUBLICATIONS

*Reflects a student author who conducted the research under the mentorship of Dr. Fairbairn

Fairbairn, C. E., & Bosch, N. (In Press). A new generation of transdermal alcohol biosensing technology: Practical applications, machine learning analytics, and questions for future research. *Addiction*.

*Gurrieri, L., **Fairbairn, C. E.**, Sayette, M. A., & Bosch, N. (In Press). Alcohol narrows physical distance between strangers. *Proceedings of the National Academy of Sciences*.

Fairbairn, C. E., *Kang, D., & Federmeier, K. D. (In Press). Alcohol and neural dynamics: A meta-analysis of acute alcohol effects on event-related brain potentials. *Biological Psychiatry*.

Fairbairn, C. E., & Sayette, M. A. (In Press). Using FACS to understand underlying processes during social exchange both inside and outside the laboratory. In P. Ekman and E. Rosenberg (Eds.), *What the face reveals* (3rd ed.). New York: Oxford University Press.

Sayette, M. A., & **Fairbairn, C. E.** (In Press). Use of FACS in a social context can enhance understanding of addiction. In P. Ekman and E. Rosenberg (Eds.), *What the face reveals* (3rd ed.). New York: Oxford University Press.

Fairbairn, C. E., & *Kang, D. (2021). Transdermal alcohol monitors: Research, applications, and future directions. In D. Frings and I. Albery (Eds.). *The Handbook of Alcohol Use and Abuse*. London: Academic Press.

Fairbairn, C. E., *Kang, D. & Bosch, N. (2020). Using machine learning for real-time BAC estimation from a new-generation transdermal biosensor in the laboratory. *Drug and Alcohol Dependence*, 216, 108205.

*Venerable, W. J., & **Fairbairn, C. E.** (2020). A multimodal, longitudinal investigation of alcohol's emotional rewards and alcohol consumption over time in young adults. *Psychology of Addictive Behaviors*, 34(5), 601-612.

*Ariss, T., & **Fairbairn, C. E.** (2020). The effect of significant-other involvement in treatment for substance use disorders: A meta-analysis. *Journal of Consulting and Clinical Psychology*, 88(6), 526–540.

Fairbairn, C. E., *Velia, B., Creswell, K. G., & Sayette, M. A. (2020). A dynamic analysis of the effect of alcohol consumption on humor enjoyment in a social context. *Journal of Experimental Social Psychology*, 86, 103903.

*Kang, D., **Fairbairn, C. E.**, & *Ariss, T. (2019). A meta-analysis of the effect of interventions for substance use disorders on emotion outcomes. *Journal of Consulting and Clinical Psychology*, 87(12), 1106-1123.

Fairbairn, C. E., & *Kang, D. (2019) Temporal dynamics of transdermal alcohol concentration measured via new generation wrist-worn biosensor. *Alcoholism: Clinical and Experimental Research*, 43(10), 2060-2069.

Fairbairn, C. E., & *Velia, B. A. (2019). Understanding social factors in alcohol reward and risk for problem drinking. In K. Federmeier (Ed.). *The Psychology of Learning and Motivation*. London: Academic Press.

Sirlanci, M., Luczak, S. E., **Fairbairn, C. E.**, *Kang, D., Pan, R., Yu, X., & Rosen, I. G. (2019). Estimating the distribution of random parameters in a diffusion equation forward model for a transdermal alcohol biosensor. *Automatica*, 106, 101-109.

Sayette, M. A., Creswell, K. G., **Fairbairn, C. E.**, Dimoff, J. D., Bentley, K., & Lazerus, T. (2019). The effects of alcohol on positive emotion during a comedy routine: A facial coding analysis. *Emotion*, 19(3), 480-488.

Fairbairn, C. E., Rosen, I. G., Luczak, S. E., & *Venerable, W. J. (2019). Estimating the quantity and time course of alcohol consumption from transdermal alcohol sensor data: A combined laboratory-ambulatory study. *Alcohol: A Biomedical Journal*, 81, 111-116.

*Bresin, K., & **Fairbairn, C. E.** (2019). The association between negative and positive affect and alcohol use: An ambulatory study. *Journal of Studies on Alcohol and Drugs*, 80(6), 614–622.

- Sirlanci, M., Rosen, I. G., Luczak, S. E., **Fairbairn, C. E.**, *Bresin, K., & *Kang, D. (2018). Deconvolving the input to random abstract parabolic systems: A population model-based approach to estimating blood/breath alcohol concentration from transdermal alcohol biosensor data. *Inverse Problems*, 34(12), 125006.
- *Kang, D., *Bresin, K., & **Fairbairn, C. E.**, (2018). The impact of alcohol and social context on the startle eyeblink reflex. *Alcoholism: Clinical and Experimental Research*, 42(10), 1951-1960.
- Fairbairn, C. E.**, Briley, D. A., *Kang, D., Fraley, R. C., Hankin, B. L., & *Ariss, T. (2018). A meta-analysis of longitudinal associations between substance use and interpersonal attachment security. *Psychological Bulletin*, 144(5), 532-555.
- Fairbairn, C. E.**, *Bresin, K., *Kang, D., Rosen, I. G., *Ariss, T., Luczak, S. E., Barnett, N. P., & *Eckland, N. S. (2018). A multimodal investigation of contextual effects on alcohol's emotional rewards. *Journal of Abnormal Psychology*, 127(4), 359-373.
- Cranford, J. A., & **Fairbairn, C. E.** (2018). Social psychology of alcohol involvement, marital dissolution, and marital interaction processes across multiple time scales. In H. E. Fitzgerald & L. I. Puttler (Eds). *Alcohol use disorders: A developmental science approach to etiology*. New York: Oxford University Press.
- Fairbairn, C. E.**, & Testa, M. (2017). Relationship quality and alcohol-related social reinforcement during couples interaction. *Clinical Psychological Science*, 5(1), 74-84.
- Fairbairn, C. E.** (2017). Drinking among strangers: A meta-analysis examining familiarity as a moderator of alcohol's rewarding effects. *Psychology of Addictive Behaviors*, 31(3), 255-264.
- Fairbairn, C. E.**, & *Bresin, K. (2017). The effects of contextual familiarity on alcohol expectancies. *Experimental and Clinical Psychopharmacology*, 25(1), 13-23.
- Fairbairn, C. E.**, & Cranford, J. A. (2016). A multimethod examination of negative behaviors during couples interactions and problem drinking trajectories. *Journal of Abnormal Psychology*, 125(6), 805-810.
- Fairbairn, C. E.** (2016). A nested frailty survival approach for analyzing small group behavioral observation data. *Small Group Research*, 47(3), 303-332.
- Sayette, M. A., **Fairbairn, C. E.**, & Creswell, K. G. (2016). Alcohol and emotion: The importance of social context. In C. E. Kopetz & C. Lejuez (Eds.), *Addiction: A Social Psychological Perspective*. New York, NY: Routledge.
- Fairbairn, C. E.**, Sayette, M. A., Wright, A. G. C., Levine, J. M., Cohn, J. F., & Creswell, K. G. (2015). Extraversion and the rewarding effects of alcohol in a social context. *Journal of Abnormal Psychology*, 124(3), 660-673.
- Fairbairn, C. E.**, Sayette, M. A., Aalen, O. O., & Frigessi, A. (2015). Alcohol and emotional contagion: An examination of the spreading of smiles in male and female drinking groups. *Clinical Psychological Science*, 3(5), 686-701.
- Fairbairn, C. E.**, Sayette, M. A., Amole, M.C., Dimoff, J. D., Cohn, J. F., & Girard, J. M. (2015). Speech volume indexes sex differences in the social-emotional effects of alcohol. *Experimental and Clinical Psychopharmacology*, 23(4), 255-264.
- Fairbairn, C. E.**, & Sayette, M. A. (2014). A social-attributional analysis of alcohol response. *Psychological Bulletin*, 140(5), 1361-1382.
- Fairbairn, C. E.**, & Sayette, M. A. (2013). The effect of alcohol on emotional inertia: A test of alcohol myopia. *Journal of Abnormal Psychology*, 122, 770-781.
- Fairbairn, C. E.**, Sayette, M. A., Levine, J. M., Cohn, J. F., & Creswell, K. G. (2013). The effects of alcohol on the emotional displays of whites in interracial groups. *Emotion*, 13(3), 468-477. (article to be reprinted in P. Ekman & E. Rosenberg (Eds.). (In Press) *What the face reveals* (3rd ed.). New York, NY: Oxford University Press.)
- Yang, Y., **Fairbairn, C. E.**, & Cohn, J. F. (2013). Detecting depression severity from vocal prosody. *IEEE Transactions*

in *Affective Computing*, 4(2), 142-150.

Sayette, M. A., Creswell, K. G., Dimoff, J. D., **Fairbairn, C. E.**, Cohn, J. F., Heckman, B. W., Kirchner, T. R., et al. (2012). Alcohol and group formation: A multimodal investigation of the effects of alcohol on emotion and social bonding. *Psychological Science*, 23(8), 869–878. (article to be reprinted in P. Ekman & E. Rosenberg (Eds.). (In Press) *What the face reveals* (3rd ed.). New York, NY: Oxford University Press.)

Fairbairn, C. E., Dundon, W. D., Xie, H., Plebani, J. G., Kampman, K. M., & Lynch, K. G. (2008). Study blinding and correlations between perceived group assignment and outcome in a cocaine pharmacotherapy trial. *The American Journal on Addictions*, 17(5), 387-391.

MANUSCRIPTS UNDER REVIEW

Dawson, D. N., Jones, M. L., **Fairbairn, C. E.**, Laurent, H. K. (Revise and Resubmit). Mindfulness and acceptance-based interventions with African Americans: A meta-analysis of intervention efficacy for depressive symptoms, *Journal of Consulting and Clinical Psychology*.

Fairbairn, C. E., Hales, A. H., Williams, K. D., Creswell, K. G., & *Wilkins, K. V. (Under Review). Mixing misery and gin: The effect of alcohol-administration on ostracism response.

PRESENTATIONS

Fairbairn, C. E., *Velia, B., Creswell, K. G., & Sayette, M. A. (2020). *A dynamic analysis of the effect of alcohol consumption on humor enjoyment in social context*. Paper presented at the annual conference of the Society for Personality and Social Psychology, New Orleans, LA.

*Ariss, T.A. & **Fairbairn, C. E.** (2020) *The effect of significant-other involvement in treatment for substance use disorders: A meta-analysis*. Poster to be presented at the annual conference of the Research Society on Alcoholism, New Orleans, LA (Presented virtually due to COVID-19).

*Lee, Z., *Mei, S., *Kang, D., & **Fairbairn, C. E.** (2020). *The Effects of Social Stress on the Incentive Salience of Alcohol Cues: An ERP Study of Heavy Drinkers*. Poster presented at the annual conference of the Society for Personality and Social Psychology, New Orleans, LA.

Fairbairn, C. E. (2019). *Understanding alcohol use in the context of close relationships*. Paper presented at the annual conference of the Research Society on Alcoholism, Minneapolis, MN.

*Velia, B. A., **Fairbairn, C.E.**, Creswell, K.G., & Sayette, M.A. (2019). *Party on the inside: A dynamic analysis of the effect of alcohol consumption on humor enjoyment in a social context*. Poster presented at the annual conference of the Research Society on Alcoholism, Minneapolis, MN.

Smith, D. C., Campbell, C. C., *Luo, M., **Fairbairn, C. E.**, & Houck, J. M. (2019). *Express yourself: An exploratory study of in-session emotional expression during motivational interviewing*. Poster presented at the annual conference of the Research Society on Alcoholism, Minneapolis, MN.

*Kang, D., *Ariss, T., *Lee, Z., & **Fairbairn, C. E.** (2019). *A meta-analysis of the effect of alcohol and other substance use interventions on emotion outcomes*. Poster presented at the annual conference of the Research Society on Alcoholism, Minneapolis, MN.

Fairbairn, C. E. (2019). *Understanding alcohol reward in social context*. Annual endowed Daniel J. Elias lecture presented at Bradley College, Peoria, IL.

Fairbairn, C. E. (2019). *Understanding alcohol reward in social context: Close relationships and the development of alcohol use disorder*. Invited talk presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

- Fairbairn, C. E.** (2018). *Using transdermal technology to understand alcohol-related emotional reinforcement among heavy drinkers in everyday drinking contexts*. Paper presented at the annual conference of the Research Society on Alcoholism, San Diego, CA.
- Fairbairn, C. E.** (2018). *Drinking with strangers: Examining the effect of social familiarity on alcohol's emotional rewards in everyday life*. Paper presented at the annual conference of the Society for Experimental Social Psychology, Seattle, WA.
- *Wilkins, K. V., **Fairbairn, C. E.**, Williams, K. D., Hales, A. H., & Creswell, K. G. (2018). *The Effects of Alcohol Consumption and Ostracism on Interpersonal Distance Choices among Social Drinkers*. Poster to be presented at the annual conference of the Society for Personality and Social Psychology, Atlanta, GA.
- Fairbairn, C. E.**, *Bresin, K., Barnett, N. P., & *Kang, D. (2017). *Combining laboratory and ambulatory methods to explore alcohol mood-enhancement in social context*. Paper presented at the annual conference of the Research Society on Alcoholism, Denver, CO.
- Fairbairn, C. E.**, & Cranford, J. A. (2016). *A Multi-method examination of negative behaviors during couples interactions and problem drinking trajectories*. Poster presented at the annual conference of the Association for Psychological Science, Chicago, IL.
- Fairbairn, C. E.**, & Cranford, J. A. (2016). *A Multi-method examination of negative behaviors during couples interactions and problem drinking trajectories*. Poster presented at the annual conference of the Research Society on Alcoholism, New Orleans, LA.
- Sayette, M. A., **Fairbairn, C. E.**, Creswell, K. G., & Dimoff, J. D. (2016). *Extraversion and the effects of alcohol on emotion and social bonding during group formation*. Paper presented at the annual conference of the Association for Psychological Science, Chicago, IL.
- Fairbairn, C. E.**, & Sayette, M. A. (2016). *Alcohol and emotional contagion: An examination of the spreading of smiles in male and female drinking groups*. Paper presented at the annual conference of the Society for Personality and Social Psychology, San Diego, CA.
- Fairbairn, C. E.**, & Sayette, M. A. (2015). *Alcohol and emotional contagion: An examination of the spreading of smiles in male and female drinking groups*. Paper presented at the annual conference of the Association for Psychological Science, New York, NY.
- Sayette, M. A., **Fairbairn, C. E.**, Creswell, K. G., & Dimoff, J. D. (2014). *A dynamic multimodal examination of the effects of alcohol on emotion and social bonding*. Paper presented at the annual conference of the Research Society on Alcoholism, Seattle, Washington.
- Creswell, K. G., Sayette, M. A., **Fairbairn, C. E.**, & Dimoff, J. D. (2014). *Individual differences in sensitivity to the rewarding social effects of alcohol*. Paper presented at the annual conference of the Research Society on Alcoholism, Seattle, Washington.
- Fairbairn, C. E.** (2013). *The acute effects of alcohol in a social setting*. Invited paper presented at the University of Oslo, Department of Biostatistics, Oslo, Norway.
- Fairbairn, C. E.**, Sayette, M. A., Dimoff, J. D., & Creswell, K. G. (2013). *Whiskey river take my mind: A dynamic test of alcohol myopia*. Poster presented at the annual conference of the Research Society on Alcoholism, Orlando, Florida.
- Creswell, K. G., Sayette, M. A., Manuck, S. B., Dimoff, J. D., & **Fairbairn, C. E.** (2013). *Interactive effects of the DRD4 VNTR polymorphism and group alcohol consumption on perceived humor of a Seinfeld comedy clip*. Poster presented at the annual conference of the Research Society on Alcoholism, Orlando, Florida.

Sayette, M. A., Creswell, K. G., Dimoff, J. D., **Fairbairn, C. E.**, Cohn, J. F., Heckman, B. W, Kirchner, T. R., Levine, J. M, & Moreland, R. L. (2012). *The impact of alcohol on social bonding during group formation*. Paper presented at the annual conference of the Society of Experimental Social Psychology, Austin, Texas.

Sayette, M. A., Creswell, K. G., Dimoff, J. D., **Fairbairn, C. E.**, Cohn, J. F., Heckman, B. W, Kirchner, T. R., Levine, J. M, & Moreland, R. L. (2012). *Effects of alcohol on emotion and social bonding during group formation*. Paper presented at the annual conference of the Association of Psychological Science, Chicago, Illinois.

Fairbairn, C. E., Sayette, M. A., Cohn, J. F., Levine, J. M., Antimarino, M. A., & Sayers, W. M. (2012). *The effect of alcohol on White members of interracial groups*. Poster presented at the annual conference of the Research Society on Alcoholism, San Francisco, California.

Creswell, K. G., **Fairbairn, C. E.**, Dimoff, J. D., Heckman, B. W, & Sayette, M. A. (2012). *Alcohol and group formation: A multimodal investigation of the effects of alcohol on emotion and social bonding*. Poster presented at the annual conference of the Research Society on Alcoholism, San Francisco, CA.

Fairbairn, C. E., Kampman, K. M., Alterman, A. I., Dundon, W. D., Plebani, J. G., Lynch, K. G., & Pettinati, H. M. (2008). *Antisocial participants report differing amounts of drinking in two outpatient pharmacotherapy trials*. Poster presented at the annual conference of the Association for Psychological Science, Chicago, IL.

Plebani, J. G., Kampman, K. M., Pettinati, H. M., Dackis, C., O'Brien, C. P., Varillo, K., Yama, M., & **Fairbairn, C.** (2007). *Implications of early in-treatment cocaine abstinence for later abstinence on high CSSA patients*. Paper presented at the annual conference of the College of Problems on Drug Dependence, Quebec City, Quebec.

Kampman, K. M., Lynch, K., Pettinati, H. M., Dackis, C., Dundon, W., Varillo, K., **Fairbairn, C.**, & O'Brien, C. P. (2007). *The measurement of craving in cocaine pharmacotherapy trials: What do we learn from it?* Poster presented at the annual conference of the College on Problems in Drug Dependence, Quebec City, Quebec.

Graber, E. C., Hiller, A. D., **Fairbairn, C. E.**, Berenson, K., & Rafaeli, E. (2006). *Using daily diary data to measure affective instability in borderline patients*. Poster presented at the annual conference of the Association for Psychological Science, New York, NY.

TEACHING EXPERIENCE

Fall '15-Present **University of Illinois at Urbana Champaign**—Practicum Supervisor
Course Title: MOTIVATIONAL INTERVIEWING FOR SUBSTANCE USE DISORDERS

Spr '17-Present **University of Illinois at Urbana Champaign**—Course Instructor
Course Title: CLINICAL SCIENCE AND INTERVENTIONS

Fall '15-Fall '19 **University of Illinois at Urbana Champaign**—Course Coordinator
Course Title: DIVERSITY SEMINAR

Fall '15-Fall '18 **University of Illinois at Urbana Champaign**—Course Instructor
Course Title: ALCOHOL AND ALCOHOLISM

Spr '11 - Summ '11 **University of Pittsburgh**—Teaching Fellow
Course Title: INTRODUCTION TO SOCIAL PSYCHOLOGY

Summ '10 **University of Pittsburgh**—Teaching Fellow
Course Title: Learning and Motivation Laboratory

PROFESSIONAL SERVICE

2020 *National Institute on Alcohol Abuse and Alcoholism—Ad-hoc grants reviewer, in-house panel*
 2019-Present *National Science Foundation—Reviewer*
 2016-Present *Research Society on Alcoholism—Government Affairs and Advocacy Committee*
 2016-Present *The Academy of Psychological Clinical Science—Program reviewer*
 2011-2013 *University of Pittsburgh Psychology Department—Diversity Committee President*
 2013-Present *Ad-hoc Journal Reviewer*

Addiction	Development and Psychopathology
Addictive Behaviors	Drug and Alcohol Review
Alcoholism: Clinical and Experimental Research	Experimental and Clinical Psychopharmacology
American Journal on Addictions	IEEE Sensors
American Journal of Community Psychology	Journal of Behavioral Medicine
Artificial Intelligence Review	Journal of Experimental Social Psychology
Assessment	Journal of Studies on Alcohol and Drugs
American Journal on Addictions	Psychological Science
American Journal of Community Psychology	Psychology of Addictive Behaviors
Behavior Research Methods	Psychopharmacology
Clinical Psychological Science	Substance Use and Misuse
Clinical Psychology Review	