

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

ASSISTANT PROFESSOR, Fall 2015 – present
Lincoln Excellence Assistant Professor Scholar, Spring 2017 – present
Department of Psychology, Clinical/Community Division
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN CHAMPAIGN, IL

EDUCATION

CLINICAL INTERNSHIP:

2014-2015
VA ANN ARBOR HEALTHCARE SYSTEM/UNIVERSITY OF MICHIGAN ANN ARBOR, MI

GRADUATE:

2009 - 2015
UNIVERSITY OF PITTSBURGH PITTSBURGH, PA
Joint Clinical/Biological & Health Psychology Ph.D. program

- DISSERTATION (2014): *Personality differences in subjective effects of alcohol: A dynamic examination of the pathways explaining alcohol-related reward*. Adviser: Michael A. Sayette, Ph.D. Committee: Jeffrey F. Cohn, Ph.D., John M. Levine, Ph.D., Michael F. Pogue-Geile, Ph.D., & Michele D. Levine, Ph.D.
- SPECIALTY PAPER (2012): *An examination of subjective response to alcohol in a social context*. Adviser: Michael A. Sayette, Ph.D.
- MASTER'S OF SCIENCE (2012): *The impact of alcohol consumption on the displayed affect of white individuals engaging in interracial interactions*. Adviser: Michael A. Sayette, Ph.D.

UNDERGRADUATE:

2002- 2006
BARNARD COLLEGE, COLUMBIA UNIVERSITY NEW YORK, NY
B.A., Psychology and Music (double major)
Summa cum laude

HONORS

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—Urbana-Champaign.

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

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

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

2005-2006 **Barnard College Writing Fellowship**

2004 **National Geographic/Glimpse Magazine**—2004 2nd place “Forgone Conclusions” essay competition
Abroad View Magazine—published fall 2004 “Personal Journeys” essay competition

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., *Velia, B., Creswell, K. G., & Sayette, M. A. (In Press). An examination of alcohol and the temporal dynamics of smiling during a comedy clip. *Journal of Experimental Social Psychology*.

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

*Bresin, K. & **Fairbairn, C. E.** (In Press). Affective dynamics as an antecedent to alcohol use: An ambulatory study. *Journal of Studies on Alcohol and Drugs*.

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

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

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

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. & *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*. Elsevier.

- 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, 480-488.
- 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, 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, 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, 359-373.
- Fairbairn, C. E.**, & Testa, M. (2017). Relationship quality and alcohol-related social reinforcement during couples interaction. *Clinical Psychological Science*, 5, 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, 255-264.
- Fairbairn, C. E.** & *Bresin, K. (2017). The effects of contextual familiarity on alcohol expectancies. *Experimental and Clinical Psychopharmacology*, 25, 13-23.
- Cranford, J. A., & **Fairbairn, C. E.** (2017). 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.**, & Cranford, J. A. (2016). A multimethod examination of negative behaviors during couples interactions and problem drinking trajectories. *Journal of Abnormal Psychology*, 125, 805-810.
- Fairbairn, C. E.** (2016). A nested frailty survival approach for analyzing small group behavioral observation data. *Small Group Research*, 47, 303-332.
- 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, 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, 686-701.
- Fairbairn, C. E.**, Sayette, M. A., Amole, M., 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, 255-64.
- Sayette, M. A., **Fairbairn, C. E.** & Creswell, K. G. (2015). 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.** (2014). A social-attributional analysis of alcohol response. *Psychological Bulletin*, *140*, 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 impact of alcohol on the emotional displays of White members of interracial groups. *Emotion*, *13*, 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*, 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*, 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., Plebani, J. G., Xie, H., 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*, 387-391.

MANUSCRIPTS UNDER REVIEW

- *Ariss, T., & **Fairbairn, C. E.** (Revise and Resubmit). The effect of significant-other involvement in treatment for substance use disorders: A meta-analysis. *Journal of Consulting and Clinical Psychology*.
- *Venerable, W. J., & **Fairbairn, C. E.** (Revise and Resubmit). A multimodal, longitudinal investigation of alcohol's emotional rewards and alcohol consumption over time. *Psychology of Addictive Behaviors*.
- Fairbairn, C. E.** *Kang, D. & Bosch, N. (Revise and Resubmit). Using machine learning and time series feature extraction for real-time BAC estimation from a new-generation transdermal sensor. *Alcoholism: Clinical and Experimental Research*.
- 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.
- Dawson, D. N., Jones, M. L., **Fairbairn, C. E., Laurent, H. K.** (Under Review). Mindfulness and acceptance-based interventions with African Americans: A meta-analysis of intervention efficacy for depressive symptoms.

PRESENTATIONS

- 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

<i>Fall '15-Present</i>	University of Illinois at Urbana Champaign —Course Instructor Course Title: ALCOHOL AND ALCOHOLISM Format: Undergraduate Lecture/Discussion course (35-50 students)	<i>Champaign, IL</i>
<i>Spr '17 -Present</i>	University of Illinois at Urbana Champaign —Course Instructor Course Title: CLINICAL SCIENCE AND INTERVENTIONS Format: Graduate discussion-based seminar (5-15 students)	<i>Champaign, IL</i>
<i>Fall '15-Present</i>	University of Illinois at Urbana Champaign —Course Coordinator Course Title: DIVERSITY SEMINAR Format: Graduate discussion-based seminar (10-15 students)	<i>Champaign, IL</i>
<i>Summ '10 – Spr '12</i>	University of Pittsburgh —Research Mentor Course Title: DIRECTED RESEARCH SEMINAR Format: One-on-one and small group supervision (5-8 students)	<i>Pittsburgh, PA</i>
<i>Fall '12 – Summ '13</i>	University of Pittsburgh Hot Metal Bridge Program —Research Mentor Course Title: N/A Format: One-on-one and small group supervision (5-6 students)	<i>Pittsburgh, PA</i>
<i>Spr '11 - Summ '11</i>	University of Pittsburgh —Teaching Fellow Course Title: INTRODUCTION TO SOCIAL PSYCHOLOGY Format: Undergraduate Lecture course (90 students spring semester, 30 students summer)	<i>Pittsburgh, PA</i>

Summ '10

University of Pittsburgh—Teaching Fellow

Pittsburgh, PA

Course Title: Learning and Motivation Laboratory

Format: Undergraduate Lecture course (90 students spring semester, 30 students summer)

PROFESSIONAL SERVICE

2019 **National Science Foundation—Reviewer**
 10/16-Present **Research Society on Alcoholism—Government Affairs and Advocacy Committee**
 9/16-Present **The Academy of Psychological Clinical Science—Program reviewer**
 9/15-Present **University of Illinois at Urbana-Champaign—Undergraduate Studies Committee**
 9/11-9/13 **University of Pittsburgh Psychology Department—Diversity Committee President**

EDITORIAL SERVICE

2019-Present **American Journal on Addictions**, Ad hoc reviewer
 2019-Present **American Journal of Community Psychology**, Ad hoc reviewer
 2019-Present **Clinical Psychological Science**, Ad hoc reviewer
 2019-Present **Addictive Behaviors**, Ad hoc reviewer
 2018-Present **Development and Psychopathology**, Ad hoc reviewer
 2018-Present **Psychology of Addictive Behaviors**, Ad hoc reviewer
 2018-Present **Drug and Alcohol Review**, Ad hoc reviewer
 2017-Present **Psychological Science**, Ad hoc reviewer
 2017-Present **Addiction**, Ad hoc reviewer
 2017-Present **Journal of Experimental Social Psychology**, Ad hoc reviewer
 2017-Present **Clinical Psychology Review**, Ad hoc reviewer
 2017-Present **Psychology of Addictive Behaviors**, Ad hoc reviewer
 2017-Present **Experimental and Clinical Psychopharmacology**, Ad hoc reviewer
 2017-Present **Behavior Research Methods**, Ad hoc reviewer
 2015-Present **Psychopharmacology**, Ad hoc reviewer
 2014-Present **Alcoholism: Clinical and Experimental Research**, Ad hoc reviewer
 2014-Present **Journal of Behavioral Medicine**, Ad hoc reviewer
 2014-Present **Assessment**, Ad hoc reviewer
 2013-Present **Journal of Studies on Alcohol and Drugs**, Ad hoc reviewer
 2013-Present **Social Psychological and Personality Science**, Ad hoc reviewer

SPECIALIZED TRAINING

Advanced Statistical Analysis and Programing*Survival Analysis (8/13-12/13)*: training fellowship, University of Oslo Department of Biostatistics*Hierarchical Linear Modeling (1/11-5/11)*: graduate course, University of Pittsburgh Psychology of Education Department*Time Series Analysis (9/11-12/11)*: statistics course, University of Pittsburgh Statistics Department*Structural Equation Modeling (1/12-5/12)*: graduate seminar, University of Pittsburgh Psychology Department*Data Programing in SAS (1/13-5/13)*: graduate course, University of Pittsburgh Biostatistics Department**Behavioral Analysis***ERP Boot Camp (2016)*: Attended 11-day workshop offering training in using EEG methods to capture evoked brain responses. University of California, Davis.*Facial Action Coding System Training (2010)*: FACS, developed by Paul Ekman and Wallace Friesen, is the most comprehensive anatomically-based system for coding facial behavior. Completed 100 hours of training to become a certified FACS coder.