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## BIOGRAPHICAL SKETCH

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NAME: Daniel Fulford, PhD

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eRA COMMONS USER NAME (credential, e.g., agency login): DFULFORD

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POSITION TITLE: Assistant Professor

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EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

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INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of California, Los Angeles	BA	05/2003	Psychology
University of Miami	MS	06/2008	Clinical Psychology
University of California, San Diego/SDVAMC	Internship	06/2011	Clinical Psychology
University of Miami	PhD	06/2011	Clinical Psychology
University of California, San Francisco	Fellowship	06/2013	Clinical Psychology

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### A. Personal Statement

I am a clinical research psychologist with expertise in social motivation, psychopathology, and mobile assessment and intervention. In addition to designing and implementing behavioral experiments and tasks measuring social connection in mental illness, my work uses ecological momentary assessment and other digital phenotyping methods for identifying social processes as they unfold in daily life. I am PI and Co-I on several grants funded by the National Institutes of Health (NIMH and NICHD) focused on mobile assessment and intervention using smartphones, including the use of digital phenotyping approaches to characterizing social behavior *in situ*.

1. **Fulford D**, Treadway MT, Woolley J. Social motivation in schizophrenia: The impact of oxytocin on vigor in the context of social and non-social reinforcement. *Journal of Abnormal Psychology*. 2018; 127: 116-128.
2. **Fulford D**, Johnson SL, Llabre MM, Carver CS. Pushing and coasting in dynamic goal pursuit: Coasting is attenuated in bipolar disorder. *Psychological Science*. 2010; 21(7): 1021-1027.
3. **Fulford D**, Campellone T, Gard DE. Social motivation in schizophrenia: How research on basic reward processes informs and limits our understanding. *Clinical Psychology Review*. 2018; 63: 12-24.
4. Mote J, Gard DE, Gonzalez R, **Fulford D**. How did that interaction make you feel? The relationship between quality of everyday social experiences and emotion in people with and without schizophrenia. *PLoS ONE*. 2019; 14.

### B. Positions and Honors

#### Positions and Employment

2005 – 2010 Graduate Student Researcher, Doctoral Dissertation supervised by Sheri L. Johnson, PhD, and Charles S. Carver, PhD, University of Miami, Department of Psychology, Miami, FL

2005 – 2010 Teaching Assistant, University of Miami, Department of Psychology, Miami, FL

2006 – 2009 Clinical Practicum, University of Miami Psychological Services Center, Miami, FL

2008 Undergraduate Instructor, Abnormal Psychology. University of Miami, Miami, FL

2008 – 2009 Clinical Practicum, Miami Veterans Affairs Medical Center, Miami, FL

2010 – 2011 Predoctoral Intern, UCSD/San Diego Department of Veterans Affairs, San Diego, CA

2011 – 2013 Postdoctoral Fellow, Research supervised by Rachel Loewy, PhD, UCSF Department of Psychiatry, San Francisco, CA

- 2013 – 2015 K12 Research Scholar, Palo Alto Medical Foundation Research Institute, Palo Alto, CA
- 2013 – 2015 Assistant Professor, UCSF, Department of Psychiatry, San Francisco, CA
- 2015 – Assistant Professor, Boston University, Department of Occupational Therapy, Boston, MA
- 2016 – Assistant Professor, Boston University, Department of Psychological & Brain Sciences, Boston, MA

### **Professional Memberships**

- 2002-2010 Association for Behavioral and Cognitive Therapies
- 2003-2013 American Psychological Association
- 2007- Association for Psychological Science
- 2011- International Early Psychosis Association
- 2014- Society for Research in Psychopathology
- 2016- Society for the Science of Motivation

### **Honors**

- 1999 Psi Beta National Honor Society in Psychology
- 2003 Cum Laude. University of California, Los Angeles
- 2007-2010 Departmental Commendation Award. University of Miami
- 2008 Qualification examination commendation. University of Miami
- 2010 Kirk R. Danhour Award for Academic and Research Excellence. University of Miami
- 2011 National Psychologist Trainee Register (NPTR) Credentialing Scholarship Award
- 2017 Face of the Future, Society for Research in Psychopathology

### **Other Professional Contributions**

- 2020 Ad hoc Grant Reviewer, National Institutes of Health, Adult Psychopathology and Disorders of Aging
- 2020 Ad hoc Grant Reviewer, National Science Foundation
- 2017-2019 Ad hoc Grant Reviewer, National Institutes of Health, SBIR/STTR Special Emphasis Panel
- 2018- Editorial Board, Journal of Abnormal Psychology
- 2018 Ad hoc Grant Reviewer, National Science Foundation
- 2018 Ad hoc Grant Reviewer, National Science Centre, Poland
- 2017- Editorial Board, Journal of Medical Internet Research – Mental Health
- 2017 Ad hoc Grant Reviewer, Canterbury Medical Research Fund

## **C. Contributions to Science**

1. Models of Motivation and Emotion Disturbance in Psychopathology. A primary area of my research addresses the interplay of motivation and emotion in the initiation and maintenance of goal-directed behavior in individuals with overactive (e.g., mania) and underactive (e.g., schizophrenia) goal pursuit. Early studies were on psychosocial processes in mood disorders, including the contribution of the Behavioral Activation System (BAS) to the onset and course of mania. In the context of an experience-sampling study, I provided initial evidence for the theory of ‘coasting,’ in which individuals ease back effort in response to higher than expected levels of goal progress. An important clinical finding was that those with bipolar disorder coasted to a significantly lesser degree than healthy controls, speaking to the importance of dysregulated effort expenditure in this illness. More recent work has contributed to our growing understanding of biopsychosocial models of motivation and emotion in healthy individuals and those across the development of severe mental illness, with a focus on diminished effort expenditure in schizophrenia and other psychotic disorders.
  - a. **Fulford D**, Campellone T, Gard DE. Social motivation in schizophrenia: How research on basic reward processes informs and limits our understanding. *Clinical Psychology Review*. 2018; 63: 12-24.
  - b. **Fulford D**, Johnson SL, Llabre MM, Carver CS. Pushing and coasting in dynamic goal pursuit: Coasting is attenuated in bipolar disorder. *Psychological Science*. 2010; 21(7): 1021-1027.
  - c. **Fulford D**, Eisner LR, Johnson SL. Differentiating risk for mania and borderline personality disorder: The nature of affective dysregulation. *Psychiatry Research*. 2015; 227: 347-352,

- d. **Fulford D**, Treadway MT, Woolley J. Social motivation in schizophrenia: The impact of oxytocin on vigor in the context of social and non-social reinforcement. *Journal of Abnormal Psychology*. 2018; 127: 116-128.
2. Goal Regulation and Functioning in Psychopathology. I have also conducted work on improving our understanding of the extreme variability in functioning present in serious mental illness, with a particular emphasis on linking behavioral findings of emotion and motivation disturbance to real-world outcomes. In a multimethod assessment of social cognition and emotion in bipolar I disorder, I found that emotion perception contributed uniquely to quality of life and social functioning, above and beyond established predictors of functional outcomes (e.g., executive functioning). In a computerized ecological momentary assessment study of social functioning among veterans with schizophrenia, my colleagues and I found that positive emotion following successful social interactions predicted effort in future social interactions, while negative emotion and cognition did not. I later expanded my research on motivation, emotion, and social functioning in adults by studying these constructs across the developmental stages of psychosis. Across a series of studies, we have found that anhedonia and amotivation are associated with impaired social and occupational functioning, even before the effects of established illness and medication.
- a. **Fulford D**, Piskulic D, Addington J, Kane JM, Schooler NR, Mueser KT. Prospective relationships between motivation and functioning in recovery after a first episode of schizophrenia. *Schizophrenia Bulletin*. 2018; 44: 369-377.
  - b. **Fulford D**, Peckham A, Johnson K, Johnson SL. Emotion perception and quality of life in bipolar I disorder. *Journal of Affective Disorders*. 2014; 152: 491-497.
  - c. Granholm E, Ben-Zeev D, **Fulford D**, Swendsen J. Ecological Momentary Assessment of social functioning in schizophrenia: Impact of performance appraisals and affect on social interactions. *Schizophrenia Research*. 2013; 145: 120-124.
  - d. **Fulford D**, Niendam TA, Floyd E, Carter CS, Mathalon DH, Vinogradov S, Stuart BK, Loewy RL. Symptom dimensions and functional impairment in early psychosis: More to the story than just negative symptoms. *Schizophrenia Research*. 2013; 147: 125-131.
3. Mobile and Electronic Health and Intervention Development. I have translated findings from the above studies to develop behavioral interventions, including through the use of mobile and electronic health technology, to support goal striving and motivation in psychiatric conditions.
- a. Torous J, Wisniewski H, Bird B, Carpenter E, David G, Elejalde, E, **Fulford D**...Keshavan M. Creating a digital health smartphone app and digital phenotyping platform for mental health and diverse healthcare needs: An interdisciplinary and collaborative approach. *Journal of Technology in Behavioral Science*. 2019; April: 1-13.
  - b. **Fulford D**, Tuot DS, Mangurian C. Electronic psychiatric consultation in primary care in the safety net. *Psychiatric Services*. 2016; 67: 1160-1161.
  - c. **Fulford D**, Mote J, Gard DE, Mueser KT, Gill K, Leung L. Development of the Motivation and Skills Support (MASS) social goal attainment smartphone app for (and with) people with schizophrenia. *Journal of Behavioral and Cognitive Therapy*. In press.
  - d. Weizenbaum E, Torous J, **Fulford D**. Cognition in context: Understanding the everyday predictors of cognitive performance in a new era of measurement. *JMIR mHealth and uHealth*. In press.

**Complete List of Published Work in My Bibliography:**

<https://www.ncbi.nlm.nih.gov/myncbi/daniel.fulford.1/bibliography/public/>

**D. Research Support**

**Ongoing Research Support**

R01 MH122367 Fulford (PI)

09/21/19-08/31/23

NIH/NIMH

Passive Sensing of Social Isolation: A Digital Phenotyping Approach

The goal of this project is to characterize social behavior using smartphone, including integration of active (i.e., ecological momentary assessment) and passive (e.g., GPS, accelerometer, microphone) data to predict momentary states of social isolation and loneliness.

Role: PI

R01 HD092444 Ellis, Earhart (MPI)

06/15/18-04/30/23

NIH/NICHD

Walking and mHealth to Increase Participation in Parkinson Disease (WHIP-PD)

The goal of this project is to test the impact of a digitally-delivered cognitive-behavioral intervention for increasing physical activity in Parkinson disease

Role: Co-Investigator

DHI 2018-02-006 Cronin-Golomb (PI)

06/18/18-06/17/20

The Institute for Health System Innovation & Policy (IHSIP) and the Hariri Institute for Computing and Computational Science & Engineering

DHI Research Award: Predicting Patterns in Real-time Cognitive Performance in Neurodegenerative Disease.

The goal of this project is to understand the contextual moderators of cognitive performance through smartphone assessment in people with neurodegenerative diseases

Role: Co-Investigator

R21 MH111501 Fulford (PI)

02/17/17-06/30/20

NIH/NIMH

Adaptation/Optimization of Technology (ADOPTech) to Support Social Functioning (R21): Enhancing Social Functioning in Schizophrenia through Scalable Mobile Technology

The goal of this project is to develop, implement, and evaluate the effectiveness on a digital intervention on social functioning in schizophrenia

Role: PI

L30 MH098380 Fulford (PI)

10/01/18-09/30/20

NIH/National Institute of Mental Health

Clinical Research Loan Repayment Program

This program supports my research by providing loan repayment.

Role: PI

### **Completed Research Support**

DHI 2017-02-002 Fulford (PI)

06/16/17-06/15/19

The Institute for Health System Innovation & Policy (IHSIP) and the Hariri Institute for Computing and Computational Science & Engineering

DHI Research Award: Leveraging smart phone sensing technology to identify social isolation in mental illness.

The goal of this project was to develop moment-by-moment characterization of human social isolation using smartphone metrics

Role: PI

Internal pilot grant Fulford (PI)

06/01/16-06/30/18

Sargent College of Health and Rehabilitation Sciences (BU)

Dudley Allen Sargent Research Fund Faculty Grant

Coping with Paranoia: Acceptability, Feasibility, and Preliminary Efficacy of an Online Transdiagnostic Approach for Clients with Serious Mental Illness

The goal of this project was to assess the feasibility and preliminary efficacy of a computer-based cognitive behavioral therapy program for paranoia

Role: PI