

Eldin Dzibur, PhD

Education

- | | |
|-----------|---|
| 2012-2017 | University of Southern California, Ph.D. , <i>Health Behavior Research</i> |
| 2010-2012 | University of Michigan-Dearborn, M.S. , <i>Health Psychology</i> |
| 2006-2010 | Wayne State University, B.S. , <i>Psychology, University Honors</i> |

Research Experience

- **Research Assistant Professor** *June 2018 – Present*
University of Southern California
 - Implementation, analysis, and dissemination of studies examining health-related outcomes and health risk behaviors among homeless young adults using smartphones.
 - Advanced statistical modeling of intensive longitudinal data and accelerometer data processing, including design and dissemination of obesity-related studies.
- **Project Scientist** *May 2017 – May 2018*
Cedars-Sinai Medical Center
 - Design, development, and execution of digital health studies examining patient outcomes.
 - Topic modeling, conjoint analysis (Sawtooth), and advanced statistical analyses and visualization in R using clinical data.
- **Clinical Innovation Intern** *May 2016 – Aug. 2016*
Omada Health
 - Systematic review of clinical literature and presentations to guide improvement of various components of an evidence-based digital health lifestyle intervention.
 - Synthesis of research for customer-facing presentations, data modeling for performance management, and analyses of baseline data in a clinical trial.
- **Graduate Research Assistant** *Aug. 2013 – May 2017*
University of Southern California, mySmoke/myQuit, Dr. Jimi Huh
 - Design, development, and programming of an ecological momentary intervention for smoking on Android devices using Java/PHP/SQL.

- Geospatial data management and analysis with repeated measure data collected from smartphones.

• **Graduate Research Assistant**

Aug. 2012 – May 2017

University of Southern California, Real-Time Eating Activity and Children's Health Lab, Dr. Genevieve Dunton

- Development and data management of ecological momentary assessment (EMA) pilot studies.
- Database management for studies using repeated measures.
- Data cleaning using Stata, SAS, and R code for national and small samples with intensive measures.

• **Graduate Research Assistant**

Apr. 2011 – May 2012

University of Michigan-Dearborn, Iron Deficiency and Feeding Behavior, Dr. Susana Pecina

- Optimization and data collection via advanced Excel spreadsheets.
- Analysis and data management for future publication.
- Supervised and instructed undergraduate students.

• **Research Intern**

Jul. 2010 – Sep. 2010

William Beaumont Hospital, Nuclear Medicine

- Image and data analysis of indium-111 octreotide studies for cancer research.
- Microsoft Excel programming for hospital billing statistics and radiation intake.

• **Undergraduate Research Assistant**

May 2009 – May 2010

Wayne State University, Behavioral and Cognitive Neuropsychology, Dr. Michelle Tomaszewski

- Development and optimization of a co-localization protocol for gene-gene receptor double-label fluorescence analysis.

Teaching Experience

Fundamentals of R

Cedars-Sinai Medical Center

Nov. 2017 – Mar. 2018

Organizing and Mobilizing Communities for Public Health

University of Southern California, Online Teaching Assistant

May 2014 – Aug. 2014

Health Behavior Research Methods

University of Southern California, Guest Lecturer

*Nov. 2013, Apr. 2014,
Feb. 2015*

Principles of Statistics and Experimental Design

University of Michigan-Dearborn, Supplemental Instructor

Sep. 2011 – Dec. 2011

Service, Honors, & Awards

Affiliations

The Obesity Society

Southwest Chapter of the American College of Sports Medicine

Society of Behavioral Medicine

International Society of Behavioral Nutrition and Physical Activity

American Psychological Association

Journal Review Contributions

Annals of Behavioral Medicine

Archives of Public Health

Association for Computing Machinery

BioMed Research International

BMC Public Health

Evaluation and the Health Professions

International Journal of Health Geographics

Behavioral Informatics and Technology Trainee Award

Apr. 2018

Society of Behavioral Medicine Special Interest Group Award

Ruth L. Kirschstein National Research Service Award

Aug. 2015-May 2017

*Cancer Control and Epidemiology Research Training Grant
2T32CA009492-31*

Society of Behavioral Medicine Meritorious Abstract

Mar. 2017

Award

Young Investigator Travel Award*Nov. 2016**Travel Grant***Wireless Health 2014 Student Travel Award***Oct. 2014**Travel Grant***USC Academic Professional Development Institute***Jun. – Aug. 2014**Award and Travel Grant***Engineering for Health Academy Mentor***Sep. 2013 – May 2014**Stipend***PSU Summer Institute on Innovative Methods***Jun. 2014**Travel Grant***USC Scholar Symposium Award***Apr. 2014**Travel Grant***USC Graduate Student Government Travel Award***Jun. 2014**Travel Grant***Wayne State University Presidential Scholarship***Sep. 2006 – May 2010**Full Tuition Remission***Other Service***Biostatistician, Curriculum Committee, Cedars-Sinai Medical Center**Bravo Magnet High School Science Fair Judge**Summer High-School Apprenticeship Research Program Mentor*

Research and Interests

Research

- Understanding HIV Risk Environment for Youth in Supportive Housing (Co-Investigator)
- The Los Angeles PRISMS Center: The Biomedical REAL-Time Health Evaluation (BREATHE) Platform (Co-Investigator)
- Novel Statistical Models for EMA Studies of Physical Activity (Co-Investigator)
- Maternal Stress and Children's Obesity Risk (Data Scientist and Research Assistant)

- Using Mobile Phones to Reduce Missing Data in Youth Activity Monitoring Studies
(Data Scientist and Research Assistant)

Dissertation

- Understanding the Methodological Limitations in the Ecological Momentary Assessment of Physical Activity

Ecological Momentary Assessment and Intervention

- Compliance and factors affecting adherence to studies and interventions
- Design and development of novel interventions for health behaviors and patient outcomes
- Analysis of missing data and its effects on multi-level modeling for repeated measures designs

Papers

-
- Henwood, B., F., **Dzubur, E.**, Redline, B., Madden, D. R., Semborski, S., Rhoades, H., Wenzel, S. (in press). Longitudinal effects of permanent supportive housing on insomnia for homeless adults. *Sleep health: journal of the National Sleep Foundation*.
 - Henwood, B., F., Redline, B., **Dzubur, E.**, Madden, D. R., Rhoades, H., Dunton, G. F., Rice, E., Semborski, S., Tang, Q., Intille, S. S. (in press). Investigating health risk environments in housing programs for young adults: Protocol for the Log My Life study. *JMIR Research Protocols*.
 - Wen, C. K. F., Liao, Y., Maher, J. P., Huh, J., Belcher, B. R., **Dzubur, E.**, Dunton, G. F. (October, 2018). Relationships among affective states, physical activity, and sedentary behavior in children: Moderation by perceived stress. *Health Psychology*.
 - Dunton, G. F., Ke, W., **Dzubur, E.**, O'Connor, S. G., Lopez, N., Margolin, G. (July, 2018). Within-Subject Effects of Stress on Weight-Related Parenting Practices in Mothers: An Ecological Momentary Assessment Study. *Annals of Behavioral Medicine*.
 - Zink, J., Belcher, B. R., Ke, W., **Dzubur, E.**, O'Connor, S. G., Huh, J., Lopez, N., Maher, J. P., Dunton, G. F. (June, 2018). Association between self-reported and objective activity levels by demographic factors: ecological momentary assessment study in children. *JMIR mHealth and uHealth*.
 - Liao, Y., Schembre, S. M., O'Connor, S. G., Belcher, B. R., Maher, J. P., **Dzubur, E.**, Dunton, G. F. (June, 2018). Within-Subject Effects of Stress on Weight-Related Parenting Practices in Mothers: An Ecological Momentary Assessment Study. *Journal of nutrition education and behavior*.

- Speier, W., **Dzubur, E.**, Zide, M., Shufelt, C., Joung, S., Van Eyk, J. E., Bairey-Merz, C. N., Lopez, M., Spiegel, B. M. R., Arnold, C. (May, 2018). Evaluating utility and compliance in a patient-based eHealth study using continuous-time heart rate and activity trackers. *Journal of the American Medical Informatics Association*
- **Dzubur, E.**, Khalil, C., Almario, C. V., Noah, B., Minhas, D., Ishimori, M., Arnold, C., Park, Y., Kay, J., Weisman, M. H., Spiegel, B. M. R. (May, 2018). Within-Subject Effects of Stress on Weight-Related Parenting Practices in Mothers: An Ecological Momentary Assessment Study. *Annals of Behavioral Medicine*.
- Maher, J. P., **Dzubur, E.**, Nordgren, R. Huh, J., Chou, C. P., Hedeker, D., Dunton, G. F. (January, 2018). Do fluctuations in positive affective and physical feeling states predict physical activity and sedentary time? *Psychology of Sport and Exercise*.
- O'Connor, S. G., Ke, W., **Dzubur, E.**, Schembre, S., Dunton, G. F., (January, 2018) Concordance and predictors of concordance of children's dietary intake as reported via Ecological Momentary Assessment (EMA) and 24-hour recall. *Public Health Nutrition*.
- **Dzubur, E.**, Dunton G.F., Huh, J., Maher, J., Intille, S. (January, 2018) Response Patterns and Intra-Dyadic Predictors of Compliance to Ecological Momentary Assessment Among Mothers and Children. *Translational Behavioral Medicine*
- Maher, J. P., **Dzubur, E.**, Huh, J., Intille, S., Dunton, G. F. (August, 2016). Within-day time-varying associations between behavioral cognitions and physical activity in adults. *Journal of Sport & Exercise Psychology*, 38(4), 423-434.
- O'Connor, S.O., Koprowski, C., **Dzubur, E.**, Leventhal, A., Huh, J., Dunton, G.F. (2017, Apr.). Differences in mothers' and children's dietary intake during physical and sedentary activities: an ecological momentary assessment (EMA) study. *Journal of the Academy of Nutrition and Dietetics*, 117(8), 1265-1271.
- Maher, J. P., Rhodes, R. E., **Dzubur, E.**, Huh, J., Intille, S., Dunton, G. F. (2017, Feb.) Momentary assessment of physical activity intention-behavior coupling in adults. *Translational Behavioral Medicine*, 1-10.
- Dunton, G. F., **Dzubur, E.**, Huh, J., Belcher, B. R., Maher, J. P., O'Connor, S., & Margolin, G. (2016, August). Daily Associations of Stress and Eating in Mother-Child Dyads. *Health Education & Behavior*, 44(3), 365-369.
- Cerrada, C. J., Ra, C. K., Shin, H., **Dzubur, E.**, Huh, J. (2016, August). Using ecological momentary assessment to identify common smoking situations among Korean American emerging adults. *Prevention Science*, 17(7), 892-902.

- Dunton, G. F., **Dzubur, E.**, Intille, S., (2016, June). Feasibility and Performance Test of a Real-Time Sensor-Informed Context-Sensitive Ecological Momentary Assessment to Capture Physical Activity. *Journal of Medical Internet Research*, 18(6), e-pub.
- Dunton, G.F., **Dzubur, E.**, Intille, S., Li, M., Huh, J., McConnell, R. (2015, October). Momentary Assessment of Psychosocial Stressors, Context, and Asthma Symptoms in Hispanic Adolescents. *Behavior Modification*. 40(1-2), 257-280.
- Dunton, G. F., Liao, Y., **Dzubur, E.**, Leventhal, A., Huh, J., Gruenewald, T., Margolin, G., Koprowski, C., Tate, E., Intille, S. (2015, July). Investigating within-day and longitudinal effects of maternal stress on children's physical activity, dietary intake, and body composition: Protocol for the MATCH study. *Journal of Contemporary Clinical Trials*. 43, 142-154.
- **Dzubur, E.**, Li, M., Kawabata, K., Sun, Y., McConnell, R., Intille, S., Dunton, G.F. (2015, April). Design of a Smartphone Application to Monitor Stress, Asthma Symptoms, and Asthma Inhaler Use. *Annals of Allergy, Asthma, and Immunology* 114(4), 341.
- Dunton, G. F., **Dzubur, E.**, Kawabata, K., Yanez, B., Bo, B., & Intille, S. (2014, February). Development of a smartphone application to measure physical activity using sensor-assisted self-report. *Frontiers in public health*, 2, e-pub.
- Tomaszycski, M.L., **Dzubur, E.**, (2013, May 18th) 17 β -Hydroxysteroid dehydrogenase Type IV, a Z-linked gene, is higher in females than in males in visual and auditory regions of developing zebra finches. *Brain Research*, 1520, 95-106.
- Thompson, J. B., **Dzubur, E.**, Wade, J., & Tomaszycski, M. (2011, July 15). The effects of estradiol on 17 β -hydroxysteroid dehydrogenase type IV and androgen receptor expression in the developing zebra finch song system. *Brain Research*, 1401, 66-73.

Presentations

- Dunton, G.F., Hedeker, D., **Dzubur, E.** MIXWILD: A new freeware program for multilevel statistical modeling of intensive longitudinal data. Seminar presented at the 38th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. New Orleans, LA.
- **Dzubur, E.**, Intille, S., Dunton, G. F. *Reactivity to a longitudinal smartphone-based time-intensive physical activity assessment*. Paper presentation at the 38th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. New Orleans, LA.
- **Dzubur, E.** (2017, June) *Modeling study burden and participant fatigue in ecological momentary assessment protocols with survey metadata*. Symposium presentation at the International Conference

on Ambulatory Monitoring of Physical Activity and Movement. Bethesda, MD/USA.

- Wen, C.K.F., Liao, Y., Huh, J., Belcher, B.R., **Dzubur, E.**, Leventhal, A., Dunton, G.F. (2017, March) *Parental Stress Moderates the Bi-directional Relationship of Mood and Children's Physical Activity*. Paper presentation at the 38th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, San Diego, CA/USA.
- Dunton, G. F., **Dzubur, E.**, Leventhal, A. M., Maher, J., Margolin, G., Belcher, B., Huh, J. (2016, June) *Intra-dyadic relations of daily stress with physical activity and sedentary behavior among mothers and children: An Ecological Momentary Assessment Study*. Paper presentation at the International Society for Behavioral Nutrition and Physical Activity Conference. Capetown, South Africa.
- Cerrada, C., Ra, C., Shin, H., **Dzubur, E.**, Huh, J. (2016, April) *Using ecological momentary assessment to identify common smoking situations among young Korean American smokers*. Paper presentation at the 37th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine, Washington DC.
- **Dzubur, E.**, Huh, J., Intille, S., Dunton, G. F. (2016, April) *Affective and behavioral predictors of compliance to ecological momentary assessment protocols in physical activity studies*. Paper presentation at the 37th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine, Washington DC.
- Dunton, G. F., **Dzubur, E.**, Leventhal, A., Huh, J., Margolin, G., Gruenewald, T., Koprowski, C., Intille, S. (2015, June) *Momentary assessment of within-day relations of maternal stress and weight-related parenting practices*. Paper presentation at the Annual Meeting of the International Society for Behavioral Nutrition and Physical Activity. Edinburgh, Scotland.
- Dunton, G. F., **Dzubur, E.**, Intille, S. (2015, June) *A Smartphone Application to Measure Physical Activity using Sensor-Informed Context-Sensitive Ecological Momentary Assessment*. Oral presentation at the Society for Ambulatory Assessment Conference. Penn State, PA/USA.
- **Dzubur, E.**, Dunton, G. F. (2015, May). *Assessment of Physical Activity using Sensor-Assisted Recall and Sensor-Driven Real-time Surveys on Smartphones*. Oral presentation at the Diabetes & Obesity Research Institute (DORI) at the University of Southern California Student Seminar. Los Angeles, CA.
- Liao, Y., **Dzubur, E.**, Dunton, G. F. (2015, April). *Using a Smartphone Application to Capture Sedentary Behavior and Multitasking among Adolescents*. Paper presentation at the 36th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. April. San Antonio, TX.
- **Dzubur, E.**, Liao Y., Dunton G. F. (2014, May). *Longitudinal Relationships Between Physical Activity Enjoyment and Behavior Differ Between Women and Men*. Oral presentation at the meeting of the International Society for Behavioral Nutrition and Physical Activity, San Diego, CA.
- Dunton, G. F., **Dzubur, E.**, Kawabata, K., Bo, B., Intille, S. (2014, April). *Development of a*

smartphone application to measure physical activity using sensor-driven Context-Sensitive Ecological Momentary Assessment. Paper presentation at the 35th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. April. Philadelphia, PA.

- Dunton, G. F., **Dzubur, E.**, Kawabata, K., Bo, B., Intille, S. (2014, April). *Development of a smartphone application to measure physical activity using sensor-informed end of day recall*. 2014. Paper presentation at the 35th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. April. Philadelphia, PA.
- **Dzubur, E.**, Liao, Y., Pentz, M. Dunton, G. F., (2014, March 12) *Measuring Perceived Environments through Ecological Momentary Assessment: Correspondence with Objective GIS Indicators*. Oral presentation at the Active Living Research annual conference. San Diego, CA.
- **Dzubur, E.** (2014, November). *Analysis of variance: a comprehensive overview*. Invited lecture by the Health Behavior Research Students' Association, University of Southern California, Los Angeles, CA.
- **Dzubur, E.**, Dunton, G., (2013, May 6th). *EMA and You: Assessing Antecedents to Asthma Attacks in Adolescents*. Presentation at Teaching With Technology Conference, University of Southern California, Los Angeles, CA.

Posters

- Jusufagic A, **Dzubur E**, Spiegel BMR. (October, 2018) Patient Reported Outcomes in Women with IBS Using Opioids for Chronic Non-Cancer Pain. Poster Presentation. American College of Gastroenterology Annual Meeting.
- Jusufagic A, **Dzubur E**, Almario C, Howard A, Martinez B, Chey W, Spiegel B.M. (June 2018) Validation and Feasibility of a Food and Symptom Tracker (Fast) Score Using A Mobile Health Application. Poster Presentation. Digestive Disease Week Annual Meeting.
- Minhas, D., Noah, B., **Dzubur, E.**, Almario, C. V., Ishimori, M., Corey, A., Howard, A., Khalil, C, Jusufagic, A., Chen, M., Park, J., Weisman, H.M., Spiegel, B.M.R. (2017, November). *Patient Knowledge, Attitudes, and Beliefs Regarding Biologic Therapies in Ankylosing Spondylitis: Insights from a Large-Scale Analysis of Social Media Platforms*. Poster presentation at the 2017 American College of Rheumatology Annual Meeting, San Diego, CA/USA.
- **Dzubur, E.**, O'Connor, S., Margolin, G., Dunton, G.F. (2017, March) *Differential effects of the company of mothers versus fathers on physical activity and sedentary behavior in boys and girls*. Poster presentation at the 38th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, San Diego, CA/USA.

- Redline, B., Lam, C. N., Henwood, B. F., Rhoades, H., Intille, S., **Dzubur, E.**, Dunton, G. F. (2017, March). Feasibility of using ecological momentary assessment with low-income Latino adults experiencing serious mental illness. Poster presentation at the 38th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine (SBM), San Diego, CA.
- Puga-Aragon, V., Sarina, K., Yu, S., Cerrada, C.J., Colao, K., **Dzubur, E.**, Huh, J. (2017, March) *Descriptive assessment of implementation intentions in a mobile ecological momentary intervention for smoking cessation*. Poster presentation at the 38th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, San Diego, CA/USA.
- **Dzubur, E.**, Belcher, B., Huh, J., & Dunton G.F. (2016, November) *Age, gender, and ethnic differences in sedentary behavior bouts among children*. Poster presentation at the ILSI Tech Summit on Innovative Tools for Assessing Diet & Physical Activity for Health Promotion. San Diego, CA.
- Zink, J., Belcher, B., **Dzubur, E.**, Ke, W., & Dunton G.F. (2016, November) *Comparing Children's Ecological Momentary Assessment-Reported Physical Activity with an Accelerometer-Based Measure of Physical Activity*. Poster presentation at the ILSI Tech Summit on Innovative Tools for Assessing Diet & Physical Activity for Health Promotion. San Diego, CA.
- Belcher, B.R., Huh J., **Dzubur E.**, Dunton G.F. (2016, June) *Interruptions in sedentary time are associated with adiposity in a sample of free-living children*. Poster presentation at the International Society for Behavioral Nutrition and Physical Activity Conference. Capetown, South Africa.
- Huh, J., Shin, HS., **Dzubur, E.**, Cerrada, C., & Chou, CP. (2016) *Reliability of Intensive, Repeated Measures in Context-Dependent, Multi-Language Setting*. Poster presentation at the Society for Prevention Research. San Francisco, CA.
- O'Connor, S., Huh, J., Leventhal, A., **Dzubur, E.**, Koprowski, C., Dunton, G. (2016, April) *Momentary Assessment of the Association of Stress and Affect on Dietary Intake in Children*. Poster presentation at the 37th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. Washington, DC.
- Dunton, G. F., **Dzubur, E.**, Liao, Y., Leventhal, A. M., Huh, J., Margolin, G., Gruenewald, T., Koprowski, C., Intille, S. (2015, November) *Using Ecological Momentary Assessment to examine the association between maternal stress and children's body composition*. Poster presentation at The Obesity Society Annual Meeting, Los Angeles, CA/USA.
- O'Connor, S., Koprowski, C., **Dzubur, E.**, Huh, J., Dunton, G. F. (2015, November) *Use of Ecological Momentary Assessment (EMA) to Assess Co-Occurring Physical Activity Behaviors and Food Choices in Mothers and Children*. Post presentation at The Obesity Society's Annual Scientific Meeting Obesity Week. Los Angeles, CA.
- Huh, J., **Dzubur, E.**, Cerrada, C., Ku, J., & Klasnja, P.(2015, July). *Building a Just-in-Time, Adaptive Cessation Intervention for Korean American Emerging Adult Smokers*. 2015 Poster

presentation at the Center for Advancing Longitudinal Drug Abuse Research (CALDAR) Summer Institute, Marina del Rey, CA/USA.

- **Dzubur, E.**, Jones, M., Huh, J. (2015, April). *Relationship Between Smoking Behavior and Activity Space in Korean American Young Adults*. Poster presentation at the 36th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. San Antonio, TX.
- **Dzubur, E.**, Intille, S., Dunton, G. F. (2015, April). *Comparing Energy Expenditure from Ecological Momentary Assessment and Sensor-Informed Recall*. Poster presentation at the 36th Annual Meeting and Scientific Sessions of the Society for Behavioral Medicine. San Antonio, TX.
- **Dzubur, E.**, Pentz, M.A., Intille, S., Dunton, G.F. (2015, February). *Investigating the Impact of a Smart Growth Community on Adult Physical Activity Contexts Using Ecological Momentary Assessment*. Poster presentation at the Active Living Research annual conference. San Diego, CA.
- **Dzubur, E.**, Intille, S., Dunton, G.F. (2014, October). *Capturing contextual information about sports and exercise using Ecological Momentary Assessment*. Poster presentation at the Annual Meeting of the Southwest Chapter of the American College of Sports Medicine.
- Dunton, G. F., **Dzubur, E.**, Intille, S., McConnell, R., Li, M. (2014, May). *Stress and physical activity in children with asthma: An Ecological Momentary Assessment study*. Poster presentation at the International Society for Behavioral Medicine and Physical Activity Conference. San Diego, CA.
- Thompson, J. B., **Dzubur, E.**, & Tomaszycski, M. (2009). *The contribution of genes and hormones to the sexual differentiation of the zebra finch song system*. Poster session presented at the Society for Behavioral Neuroendocrinology Conference, Toronto, Canada and the Psychology Department Graduate Research Poster Day, Wayne State University, Detroit, MI.