

Brooke M. Bell

Curriculum Vitae
December 2020

PERSONAL INFORMATION

Full Name: Brooke Marie Bell
Place of Birth: Antioch, CA, USA
Citizenship: USA

CONTACT INFORMATION

Work Address

2001 N. Soto Street, 3rd floor, 312-09
Department of Preventive Medicine
University of Southern California
Los Angeles, CA 90032 USA

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EDUCATION

2016 – 2021 (Exp.) Ph.D., Health Behavior Research (Preventive Medicine)
University of Southern California, Keck School of Medicine, Department of Preventive Medicine
Los Angeles, CA, USA
Advisors: Drs. Donna Spruijt-Metz, Kayla de la Haye, Thomas Valente
Dissertation Title: System Dynamics of In-Home Family Eating Behavior: Insights from Intensive Longitudinal Data Using Ecological Momentary Assessment and Wearable Sensors

2012 – 2016 B.A., Mathematics
University of Southern California, Department of Mathematics
Los Angeles, CA, USA

HONORS AND AWARDS

2019 – 2020 Social Networks & Health Fellow, Duke Network Analysis Center
2019 Rockwell Dennis Hunt Scholastic Award and Trophy, Honorable Mention, (\$1000), USC Graduate School
2018 Meritorious Abstract Award, Society of Behavioral Medicine
2018 Citation Abstract Award, Society of Behavioral Medicine
2018 Travel Award (\$1000), USC Graduate School
2017 Travel Award (\$1250), Course on Mathematical Sciences in Obesity Research, University of Alabama at Birmingham
2017 Citation Poster Award, American Psychosomatic Society
2014 Trainee, Iowa Summer Institute in Biostatistics, University of Iowa
2012 – 2016 QuestBridge Scholar, University of Southern California

RESEARCH INTERESTS

Eating behavior; chronic disease prevention; obesity; complex systems; social networks; mobile health (mHealth) technologies; health equity; food systems; food policy; climate change; sustainable behavior

RESEARCH EXPERIENCE

- 2020 – Present **Position:** Graduate Research Assistant (20 hours/week)
Employer: Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA
Project: Leveraging Big Mobility Data to Model Food Environment Exposure and Access for Diverse Los Angeles Residents (USC Keck School of Medicine Dean's Pilot Funding)
Duties: Data management, data analyses; manuscript writing
Supervisor: Dr. Kayla de la Haye
- 2016 – 2020 **Position:** Graduate Research Assistant (20 hours/week)
Employer: Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA
Project: Monitoring and Modeling Family Eating Dynamics (NSF: 1521722)
Duties: Study recruitment, project management, in-field data collection, data management, data cleaning, data analyses, manuscript writing, grant writing, student mentorship
Supervisors: Dr. Donna Spruijt-Metz & Dr. Kayla de la Haye
- 2015 – 2016 **Position:** Undergraduate Research Assistant (5 hours/week)
Employer: USC mHealth Collaboratory, University of Southern California, Los Angeles, CA
Project: Virtual Sprouts: Web-Based Gardening Games to Teach Nutrition and Combat Obesity (NIH: R25 OD011113-05)
Duties: Data entry, managing study surveys and materials, conducting literature reviews, data analyses
Supervisor: Dr. Donna Spruijt-Metz
- 2014 – 2014 **Position:** Undergraduate Research Assistant (5 hours/week)
Employer: Real-Time Eating and Children's Health Lab, Department of Preventive Medicine, University of Southern California, Los Angeles, CA
Project: Maternal Stress and Children's Obesity Risk (NIH: R01 HL119255-02)
Duties: Study recruitment, in-field data collection, data entry
Supervisor: Dr. Genevieve F. Dunton
- 2014 – 2014 **Position:** Undergraduate Research Assistant (20 hours/week)
Employer: NIH-sponsored Summer Institute for Training in Biostatistics, Holden Comprehensive Cancer Center, University of Iowa, Iowa City, IA
Project: Assessing the Role of Patient Factors on Surgical Complication In Pancreatic Cancer Patients
Duties: Data cleaning, data analyses
Supervisor: Dr. Brian J. Smith

WORK EXPERIENCE

- 2020 – Present **Position:** Research Intern (3 hours/week)
Employer: Healthy Food Procurement Unit, Division of Chronic Disease and Injury Prevention, Los Angeles County Department of Public Health, Los Angeles, CA
Duties: Designed a research survey assessing the impact of COVID-19 on changes to eating behavior and food insecurity in Los Angeles residents; data management, data analyses, program evaluation
Supervisor: Dr. Brenda Robles
- 2019 – 2019 **Position:** Research Intern (5 hours/week)
Employer: FEAST (Food, Education, Access, Support, Together) (community non-profit), Los Angeles, CA
Duties: Designed a program evaluation of FEAST's community-based intervention
Supervisor: Amy Vu, M.P.H.

TEACHING EXPERIENCE

- 2020 – 2020 **Position:** Teaching Assistant (20 hours/week)
Course: PM 501: Foundations in Health Education and Promotion
Employer: Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA
- Aug. 2019 **Position:** Co-Instructor / Teaching Assistant
Course: R Bootcamp – Data Analysis
Employer: Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA

PUBLICATIONS

Peer-Reviewed Journal Articles

9. Singleton C.R., Adeyemi O.S., Parab K.V., Roehll A.M., Flores E., Adams A.M., Quintiliani L.M., **Bell B.M.**, Dulin-Keita A. (2020). Society of Behavioral Medicine position statement: Provide funding for incentive programs to expand healthy food offerings in SNAP-authorized small food stores. *Translational Behavioral Medicine*. ibaa111. <https://doi.org/10.1093/tbm/ibaa111>
8. **Bell B.M.**, Alam R., Alshurafa N., Thomaz E., Mondol A., de la Haye K., Stankovic J.A., Lach J., Spruijt-Metz D. (2020). Automatic, Wearable-Based, In-Field Eating Detection Approaches for Public Health Research: A Scoping Review. *npj Digital Medicine*. 3(1): 38. <https://doi.org/10.1038/s41746-020-0246-2>
7. de la Haye K., **Bell B.M.**, Salvy S.J. (2019). The role of maternal social networks on the outcomes of a home-based childhood obesity prevention pilot intervention. *Journal of Social Structure*. 20(3): 7–28. <https://doi.org/10.21307/joss-2019-004>
6. **Bell B.M.**, Spruijt-Metz D., Vega Yon G.G., Mondol A., Alam R., Ma M., Emi I., Lach J., Stankovic J.A., de la Haye K. (2019). Sensing eating mimicry among family members. *Translational Behavioral Medicine*. 9(3): 422–430. <https://doi.org/10.1093/tbm/ibz051>

5. Dulin-Keita A., Quintiliani L.M., Buscemi J., **Bell B.M.**, Gans K.M., Yaroch A.L. (2019). Society of Behavioral Medicine position statement: Increase funding for fruit and vegetable production in Farm Bill reauthorization. *Translational Behavioral Medicine*. 9(2): 391–394. <https://doi.org/10.1093/tbm/iby041>
4. Spruijt-Metz D., Wen C.K.F., **Bell B.M.**, Intille S., Huang J.S., Baranowski T. (2018). Advances and controversies in diet and physical activity measurement in youth. *American Journal of Preventive Medicine*. 55(4): e81–e91. <https://doi.org/10.1016/j.amepre.2018.06.012>
3. **Bell B.M.**, Cook L., Gotsis M., Lane H.C., Davis J.N., Antunez-Castillo L., Ragusa G., Spruijt-Metz D. (2018). Virtual Sprouts: A virtual gardening pilot intervention increases self-efficacy to cook and eat fruit and vegetables in minority youth. *Games for Health Journal*. 7(2): 127–135. <https://doi.org/10.1089/g4h.2017.0102>
2. Ma M., Alwan R., **Bell B.M.**, de la Haye K., Spruijt-Metz D., Lach J., Stankovic J.A. (2017). M²G: A monitor of monitoring systems with ground truth validation features for research-oriented residential applications. *International Conference on Mobile Ad Hoc and Sensor Systems*. 10–18. <https://doi.org/10.1109/MASS.2017.107>
1. Salekin A., Chen Z., Ahmed M.Y., Lach J., Spruijt-Metz D., de la Haye K., **Bell B.M.**, Stankovic J.A. (2017). Distant emotion recognition. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*. 1(3): 1–25. <https://doi.org/10.1145/3130961>

Manuscripts Under Review

2. Mondol A., **Bell B.M.**, Ma M., Alam R., Emi I.A., Preum S.M., de la Haye K., Spruijt-Metz D., Lach J., Stankovic J.A. MFED: A System for Monitoring Family Eating Dynamics. Submitted.
1. **Bell B.M.**, Spruijt-Metz D., Naya C.H., Lane C.J., Wen C.K.F., Davis J.N., Weigensberg M.J. The mediating role of emotional eating in the relationship between perceived stress and dietary intake quality in Hispanic/Latino adolescents. Under Revision.

Manuscripts in Preparation

2. **Bell B.M.**, Mondol A., Alam R., Ma M., Emi I., Preum S.M., de la Haye K., Lach J., Stankovic J.A., Spruijt-Metz D. Investigating the validity and feasibility of the Monitoring and Modeling Family Eating Dynamics (M2FED) system to detect family eating behavior in context (Dissertation Study 1). In preparation.
1. Flórez K.R., **Bell B.M.**, de la Haye K. Unraveling the relationship between food insecurity, acculturation, and diet quality in Mexican Americans: What is the role of social networks? In preparation.

Book Chapters

1. Wen C.K.F., **Bell B.M.**, Spruijt-Metz D. (2016) Mobile Health Strategies for Pediatric Obesity Prevention and Interventions. *Childhood Obesity: Causes, Consequences and Intervention Approaches* (M. Goran). CRC Press. pp. 431-441. <https://doi.org/10.1201/9781315370958>

Health Policy Briefs

2. Singleton C., Adeyemi O., Parab K., Roehll A., Flores E., Adams A., Quintiliani L.M., **Bell B.M.**, Dulin A. (2020). SBM position statement: Provide funding for incentive programs to expand healthy food offerings in SNAP-authorized small food stores. Society of Behavioral Medicine Policy Brief (available at <https://www.sbm.org/advocacy/policy-positions>)
1. Dulin-Keita A., Quintiliani L., Buscemi J., **Bell B.M.**, Gans K., Yaroach A. (2017). SBM supports increasing funding allocations for fruit and vegetable production in the reauthorization of The Farm Bill. Society of Behavioral Medicine Policy Brief (available at <https://www.sbm.org/advocacy/policy-positions>)

SCIENTIFIC PRESENTATIONS

National and International Presentations

7. de la Haye K., **Bell B.M.**, Flórez K.R., (2020, July). Unraveling the relationship between food insecurity, acculturation, and diet quality in Mexican Americans: What is the role of social networks? *XL Sunbelt Conference of the International Network for Social Network Analysis*. Paris, France.
6. Spruijt-Metz D., de la Haye K., **Bell B.M.**, Mondol A., Ma M., Alam R., Lach J., Stankovic J., (2020, April). Monitoring and Modeling Family Eating Dynamics in Real Time Using Mobile Health Technologies. *41st Annual Meeting of the Society of Behavioral Medicine*. San Francisco, CA, USA.
5. **Bell B.M.**, Albertoni N., Vega Yon G.G., Valente T.W., (2019, June). Comparison of country-level network exposures on the adoption of multiple United Nations treaties. *XXXIX Sunbelt Conference of the International Network for Social Network Analysis*. Montréal, Québec, Canada.
4. **Bell B.M.**, Alam R., Stankovic J.A., Lach J., Spruijt-Metz D., (2019, March). A Review of Wearable-Based Eating Detection Approaches for Obesity Prevention and Treatment. *Behavioral Informatics and Technology SIG Preview, a.k.a. Tech Madness, Society of Behavioral Medicine's Annual Meeting*. Washington, D.C., USA.
3. **Bell B.M.**, Spruijt-Metz D., de la Haye K., (2018, July). Lightning Talk: Introducing a Novel Big Data Collection Tool – M2FED. *9th International Conference on Complex Systems – Workshop on Food Complexity and Nutrition*. Boston, MA, USA.
2. **Bell B.M.**, Salvy S.J., de la Haye K., (2018, June). Social Network Influences in the Childhood Obesity Prevention at Home (COPE) Program. *XXXVIII Sunbelt Conference of the International Network for Social Network Analysis*. Utrecht, Netherlands.
1. **Bell B.M.**, Spruijt-Metz D., Mondol A.S., Alam R., Stankovic J.A., Lach J., de la Haye K., (2018, April). Monitoring and Modeling Family Eating Dynamics (M2FED): A sensor system to detect dietary mimicry in families. *39th Annual Meeting of the Society of Behavioral Medicine*. New Orleans, LA, USA.

Poster Presentations

10. de la Haye K., **Bell B.M.**, Flórez K.R., (2020, November). Acculturation and Diet Quality in Mexican Americans: What Is The Role Of Social Networks? To be presented: *Annual Meeting of The Obesity Society*. Online.
9. **Bell B.M.**, Mondol A., Ma M., Alam R., Emi I., de la Haye K., Lach J., Stankovic J.A., Spruijt-Metz D., (2020, April). Evaluating the impact of time, demographic, and social effects on compliance to eating event-triggered EMA surveys in families. *41st Annual Meeting of the Society of Behavioral Medicine*. San Francisco, CA, USA.
8. **Bell B.M.**, Alam R., Alshurafa N., Thomaz E., Mondol A., de la Haye K., Stankovic J.A., Lach J., Spruijt-Metz D., (2020, February). Automatic, Wearable-Based, In-Field Eating Detection Approaches for Obesity Research: A Scoping Review. *7th Annual USC Diabetes & Obesity Research Institute (DORI) Annual Symposium*. Los Angeles, CA, USA.
7. de la Haye K., **Bell B.M.**, Vega Yon G.G., Mondol A.S., Alam R., Ma M., Emi I., Lach J., Stankovic J.A., Spruijt-Metz D., (2019, July). Detecting Eating Mimicry in Families. *5th International Conference on Computational Social Science*. Amsterdam, Netherlands.
6. **Bell B.M.**, Alam R., Stankovic J.A., Lach J., Spruijt-Metz D., (2019, March). A Review of Wearable-Based Eating Detection Approaches for Obesity Prevention and Treatment. *40th Annual Meeting of the Society of Behavioral Medicine*. Washington, D.C., USA.
5. Spruijt-Metz D., Stankovic J.A., Lach J., de la Haye K., **Bell B.M.**, Salekin A., Chen Z., Ahmed M.Y., Alam R., Rayo J., Mondol A.S., Ma M., Preum S.M., Emi I., (2017, April). Monitoring and Modeling Family Eating Dynamics. *mHealth Connect 2017*. Stanford, CA, USA.
4. Stankovic J.A., Spruijt-Metz D., Lach J., de la Haye K., **Bell B.M.**, Salekin A., Chen Z., Ahmed M.Y., Alam R., Rayo J., Mondol A.S., Ma M., Preum S.M., Emi I., (2017, March). Monitoring and Modeling Family Eating Dynamics. *NSF Smart and Connected Health Principal Investigators Meeting*. Boston, MA, USA.
3. **Bell B.M.**, Cook L., Gotsis M., Lane H.C., Davis J., Antunez-Castillo L., Ragusa G., Spruijt-Metz D., (2017, March). Virtual Sprouts: A virtual gardening pilot intervention increases self-efficacy to cook and eat fruits and vegetables in minority youth. *38th Annual Meeting of the Society of Behavioral Medicine*. San Diego, CA, USA.
2. Rayo J., **Bell B.M.**, Ahmed M.Y., de la Haye K., Lach J., Stankovic J.A., Spruijt-Metz D., (2017, March). Monitoring and Modeling Family Eating Dynamics (M2FED): A system that detects family eating behaviors and moods in the home environment. *75th Annual Conference of the American Psychosomatic Society*. Sevilla, Spain.
1. **Bell B.M.**, Cook L., Gotsis M., Lane H.C., Davis J., Antunez-Castillo L., Ragusa G., Spruijt-Metz D., (2017, February). Virtual Sprouts: A virtual gardening pilot intervention increases self-efficacy to cook and eat fruits and vegetables in minority youth. *4th Annual USC Diabetes & Obesity Research Institute (DORI) Annual Symposium*. Los Angeles, CA, USA.

PROFESSIONAL SOCIETY MEMBERSHIPS

2018 – Present International Network for Social Network Analysis (INSNA)
 2018 – Present American Public Health Association (APHA)
 2017 – Present Society of Behavioral Medicine (SBM)

SERVICE

Professional Service

2020 – Present Member, SBM Presidential Working Group on Climate Change, Behavior Change, and Health
 2020 – Present Co-Founder, Network of Diverse Scholars in Social Network Analysis
 2019 – Present Committee Member, SBM Health Policy Committee

Ad Hoc Manuscript Peer Review

2020 – Present Preventing Chronic Disease
 2020 – Present IEEE Journal of Biomedical and Health Informatics
 2020 – Present ACM Transactions on Computing for Healthcare
 2019 – Present Evaluation & the Health Professions
 2019 – Present BioMed Central Pediatrics
 2018 – Present Translational Behavioral Medicine

Ad Hoc Abstract Peer Review

Society of Behavioral Medicine

Department Service

2020 – Present Co-Founder, Department of Preventive Medicine's Anti-Racism Council
 2020 – Present Founder/Facilitator, Racism & Public Health: Departmental Book Club
 2018 – 2019 President, Health Behavior Research Student Association
 2017 – 2018 Chair of External Affairs, Health Behavior Research Student Association

University Service

2020 – Present Member, Health Justice Inter-Professional Education Working Group
 2019 – 2020 Ad Hoc Member, USC Presidential Sustainability Working Group
 2019 – 2020 Member, USC Joint Student Task Force on Sustainability
 2018 – 2020 Committee Member, USC Volunteerism Partnership Committee
 2018 – Present Director of Community Service, USC Graduate Student Government
 2018 – Present Committee Member, USC Office of Sustainability Steering Committee
 2018 – Present Member, USC Alliance for Civic Engagement

Community Service

2020 – Present Volunteer, Food/grocery distribution centers, East/South Los Angeles
 Mar. 2020 Co-Organizer, East LA Area Community Organizations Showcase
 2019 – 2020 Guest Presenter (Health Careers), Los Angeles middle and high schools
 Oct. 2019 Co-Organizer, STEM Day of Discovery, USC Keck School of Medicine
 Oct. 2018 Organizer, Voter Registration Drive, Lincoln Heights Farmers Market
 2017 – 2018 Volunteer, Los Angeles Food Policy Council
 2013 – 2014 Mathematics Tutor, Teach for Los Angeles
 2013 – 2013 Mathematics Teaching Assistant, USC Joint Educational Project

MENTORSHIP**Undergraduate Students**

Daisy Gonzalez, Jessica Rayo (CSU Long Beach), Mia Villarosa, Grace Do, Megri Kartounian, Jessica Myers, Anna Satterfield, Jean Hyon, Ricardo Sifontes (CSU Northridge), Rebecca Braganca, Cynthia Li, Sharyse Watanobe, Kara Hur, Yun Bao

Graduate Students

Matt Shi (M.S.), Ibrahim Adamu (M.P.H.)