Jixin Li

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RESEARCH INTERESTS	Experience sampling, mobile health, human-computer interaction, Current focus: developing intelligent mobile systems for physical a tracking to enable personalized just-in-time interventions.	machine learning. and mental health	
EDUCATION	Northeastern University, Boston, MA Ph.D. in Personal Health Informatics Advisor: Prof. Stephen Intille	09/2019-05/2025	
	Columbia University , New York City, NY <i>M.A.</i> in Statistics	08/2016-12/2017	
	University of Michigan , Ann Arbor, MI B.A. in Psychology, minor in Applied Statistics, University Honor	08/2012-05/2014	
	Renmin University of China , Beijing, P.R.China Major in Applied Psychology and transferred to the University of	08/2010-07/2012 Michigan	
PUBLICATIONS	Jixin Li , Aditya Ponnada, Wei-Lin Wang, Genevieve F. Dunton, Stephen S. In- tille. 2024. Ask Less, Learn More: Adapting Ecological Momentary Assessment Survey Length by Modeling Question-Answer Information Gain. Proc. ACM In- teract. Mob. Wearable Ubiquitous Technol, 8, 4, Article 166, (December 2024), 32 pages. https://doi.org/10.1145/3699735		
	Dunton, G. F., Wang, W. L., Li , J.* , Hedeker, D., Intille, S. S., Rothman, A. J. (2024). Developing a Framework to Evaluate the Validity of Longitudinal Accelerometer-Based Indicators of Physical Activity Maintenance. Journal of Physical Activity and Health, 21(10), 961-962.		
	Le, H., Lakshminarayanan, R., Li , J.* , Mishra, V., Intille, S. (2024). Collecting Self-reported Physical Activity and Posture Data Using Audio-based Ecological Mo- mentary Assessment. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, 8(3), 1-35.		
	Ponnada, A.*, Li, J.*, Wang, S., Wang, W.L., Do, B., Dunton S.S., 2022. Contextual Biases in Microinteraction Ecological Mome (μ EMA) Non-response. Proceedings of the ACM on Interactive, and Ubiquitous Technologies, 6(1), pp.1-24. Distinguished Paper at the UbiComp/ISWC 2023.	, G.F. and Intille, entary Assessment Mobile, Wearable er Award (DPA)	
CONFERENCE POSTERS & PRESENTATIONS	Wang, W.L., Li, J., Intille, S., Hedeker, D., & Dunton, G. Usin Means and Variances from Ecological Momentary Assessment Data ables: Comparing Standard Computational Formulas to Mixed-Effe Model Estimates. Special Issue of the Journal of Behavioral Medic ysis for Behavioral Medicine.	ng Intraindividual as Predictor Vari- ects Location-Scale ine on Data Anal-	

Wang, W-L., Li, J., Wang, S., Rothman, A.J., Intille, S.S., Dunton, G.F. (March 2024) Prevalence of Physical Activity Maintenance Across a 12-Month Study: Comparison of Accelerometer Indicators. Symposium to be presented at: The Annual Meeting Scientific Sessions of the Society of Behavioral Medicine, Philadelphia, PA, USA.

Prochnow, T., Wang, W-L., Wang, S., Li, J., Intille, S., Hedeker, D., & Dunton, G. (May 20-23, 2024). Understanding ecological momentary assessment compliance in a 12- month multi-measurement burst sampling design in the TIME study. Accepted as an oral presentation at the 2024 International Society of Behavioral Nutrition and Physical Activity Meeting, Omaha, NE. SIG award at the International Society of Behavioral Nutrition and Physical Activity (ISBNPA) 2024.

Volz, S. C., Wang, S., **Li**, **J**., Wang, W.L., Dunton, G. F., Intille, S. S., & Rothman, A. J. (2023, April) Affectively-charged motivations for physical activity and their relation to physical activity engagement. Poster presented at the 44th annual convention of the Society of Behavioral Medicine, Phoenix, AZ.

Wang, W.L., Shirlene Wang, Chih-Hsiang Yang, **Jixin Li**, Intille, S., Dunton, G. F. Associations of smartphone usage with average day level and day-to-day variability of mood in emerging adults. Poster presented at the 44th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine (April 26-29, 2023; Phoenix, AZ).

Crosley-Lyons, R., Li, J., Wang. W-L., Wang, S., Huh, J., Bae., D., Intille, S., Dunton, G.F., (March 2023) Exploring within-person Circadian Rest-activity Cycle Rhythm Dynamics over Six Months: A Latent Transition Analysis. Poster presented at: The Annual Meeting Scientific Sessions of the Society of Behavioral Medicine, Philadelphia, PA, USA.

Volz, S., Wang, S., Li, J., Wang. W-L., Dunton, G.F., Intille, S., Rothman, A.J. (March 2023) Effects of Affective Motivation and Deliberation on Subsequent Dayand Hour-Level Physical Activity Engagement. Poster presented at: The Annual Meeting Scientific Sessions of the Society of Behavioral Medicine, Philadelphia, PA, USA.

MixWILD: mixed model analysis with intensive longitudinal data

- MixWILD is a Java-based desktop application for examining the effects of variance and slope of time-varying variables in intensive longitudinal data, especially the ones collected using ecological momentary assessments.
- The software has enabled behavioral researchers to answer novel research questions using intensive longitudinal data and led to at least 9 influential publications in behavioral medicine.

Python package for annotating location data with OpenStreetMap pointof-interest tags

• The Python package allows researchers to use geospatial data to add an additional layer of context information from OpenStreetMap databases to raw location coordinates automatically and at scale.

WORK EXPERIENCES

OPEN-SOURCE

SOFTWARE &

TOOLS

Head Teaching Assistant at Northeastern University 9/2024-12/2024

- Independently designed and delivered course materials for a senior-level machine learning class with 60 students.
- Developed and presented PyTorch demonstration code and tutorials on cluster computing.

	Data Analyst at Learnable, Inc., Boston, MA	10/2017 - 10/2018	
	Real-time pricing support for transportation delay in	nsurance:	
	• Supported pricing for transportation delay insurance by using ML models and scraping weather data (python).	predicting delay risk	
	Built classification models to predict hierarchical lab	els:	
	• Implemented multi-level SVM models to assign knowledge maths and physics exercises (python Jupyter notebook).	e labels to high school	
	Survey Data Analyst at AsiaEAP Consulting Co., Shanghai	, China 2015-2016	
	• Wrote organizational mental well-being report by conduc group interview to client companies in labor intensive ind	ting scale survey and	
	• Collected prevailing scales on stress in the workplace an naires customized for clients, including Shanghai Volkswa	d compiled question- gen, Qunar.com.	
PROGRAMMING AND TOOLS	Python, R, Java, MySQL, Android mobile app development, Git, Linux, cluster computing		
SCHOLARSHIPS & AWARDS	Distinguished Paper Award (DPA) at UbiComp/ISWC 2023.		
	SIG award at ISBNPA 2024.		
	University Honors, University of Michigan, 2014.		