

JUNRUI DI

615 N. Wolfe Street E3039, Baltimore, MD 21205
410-955-4394 ♦ jdi2@jhu.edu ♦ <https://junruidi.github.io>

RESEARCH INTERESTS

Statistical methods for wearable devices, matrix/tensor decomposition, Functional data analysis, Physical activity assessment, mHealth

EDUCATION

Johns Hopkins Bloomberg School of Public Health Expected: *May 2019*
Ph.D, Biostatistics

Advisor: Vadim Zipunnikov, Ph.D.

Georgetown University *Dec 2013*
M.S., Biostatistics

Thesis: *Robust Integrative Analysis of Multi-Block Contaminated Datasets*

Advisor: Valeriy Korostyshevskiy, Ph.D.

University of California, Berkeley *May 2012*
B.A. Applied Mathematics

High Distinction General Scholarship (roughly equivalent to Magna Cum Laude)

EXPERIENCE

Research Assistant *Jun 2015 - Present*
Johns Hopkins Bloomberg School of Public Health
Baltimore, MD

Supervisor: Vadim Zipunnikov, Ph.D.

Co-Investigator *May 2013 - Apr 2014*
Multicenter AIDS Cohort Study
Washington, DC

Supervisor: Michael Plankey, Ph.D.

Research Assistant *Sep 2012 - May 2013*
Georgetown University
Washington, DC

Supervisors: George Luta, Ph.D. and Valeriy Korostyshevskiy, Ph.D.

PUBLICATIONS

Published / In Press

1. **Di, J.**, Li, Y., Friedman, MR., Reddy, S., Surkan, PJ., Shoptaw, S., and Plankey, M.. Determining Survey Satisficing of Online Longitudinal Survey Data in the Multicenter AIDS Cohort Study using a Group-Based Trajectory Analysis. *Journal of Medical Internet Research Public Health and Surveillance*. 2016; 2(2): e150.

Under Review / Revision

2. Zipunnikov, V., Dey, D., Leroux, A., **Di, J.**, Urbanek, J., Harris, T., and Crainiceanu, C.. Objectively measured late-morning physical activity predicts mortality in the NHANES 2003-2006 cohorts. Under Revision *PLOS One*.

3. Varma, V., Dey D., Leroux A., **Di, J.**, Urbanek, J., and Zipunnikov, V.. Re-evaluating the effect of age on physical activity over the lifespan. Under Revision *Preventive Medicine*.
4. **Di, J.**, Leroux, A., Urbanek, J., Spira, A., Schrack, J., and Zipunnikov, V.. Methods to quantify fragmentation of accelerometry-measured physical activity. Under review *Medicine & Science in Sports & Exercise*.
5. Johns, J., **Di, J.**, Zipunnikov, V., Swendsen, J., Merikangas, K.. Fragmentation as a novel measure of mood stability assessed by electronic diaries. Under review *Psychological Methods*.
6. Grigsby, M., **Di, J.**, Leroux, A., Xiao, L., Zipunnikov, V., Crainiceanu, C., and Checkley, W.. Novel Metrics for Growth Model Selection. Under review *Emerging Themes in Epidemiology*.
7. Urbanek, J., Spira, A., **Di, J.**, Leroux, A., Crainiceanu, C., and Zipunnikov, V.. Epidemiology of Objectively Measured Bedtime and Chronotype in the US adolescents and adults: NHANES 2003-2006. Under review *Chronobiology International*. **In Preparation**
8. A study on extension of the fragmentation metrics.
9. A study on analyzing accelerometry data measured at multiple days.

HONORS & AWARDS

The Louis I. and Thomas D. Dublin Award	Mar 2017
Washington Statistical Society Outstanding Graduate Student Award	Jun 2013
Phi Beta Kappa Honor Society Lifetime Membership	May 2012

PRESENTATIONS

1. Integrative Analysis of Multi-Block Contaminated Datasets (oral contributed). 2013 JSM, Montreal, Canada
2. Novel Statistical Framework to Quantify Fragmentation of Physical Activity (oral contributed). 2017 ENAR, Washington, DC.
3. Novel Statistical Framework to Quantify Fragmentation of Physical Activity (oral). 2017 ICAMPAM, Bethesda, MD.
4. Novel Statistical Framework to Quantify Fragmentation of Physical Activity (oral). 2017 IAGG, San Francisco, CA.

TEACHING EXPERIENCE

PH.140.621-4 - Statistical Methods in Public Health I-IV	2016 - 2017
PH.140.751-4 - Advanced Methods in Biostatistics I-IV	2015 - 2016
BIST 514 - Linear Modeling & Multivariate Analysis	Spring 2014

CERTIFICATIONS

SAS Certified Advanced Programmer for SAS 9	Aug 2013
---	----------

COMPUTING SKILLS

R, Matlab, SAS, L^AT_EX