

JUNRUI DI

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STATISTICAL METHODS RESEARCH INTERESTS

feature engineering for wearable devices, matrix and tensor decompositions, dimension reduction, functional data analysis.

SCIENTIFIC RESEARCH INTERESTS

wearable computing and its applications in public health (e.g. mental health and aging), physical activity assessment, sleep, circadian rhythm, gerontological epidemiology.

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

Advisor: Vadim Zipunnikov, Ph.D.

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

Advisor: Michael Plankey, Ph.D.

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

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

PUBLICATIONS

Published / In Press

1. 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. Accepted by *Preventive Medicine*.

2. **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

3. 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. Resubmitted to *PLOS One* after revision.
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 Measurements*.
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.

PRESENTATIONS

1. Integrative Analysis of Multi-Block Contaminated Datasets (oral contributed). *2013 JSM, Montreal, Canada*
2. Fragmentation of Physical Activity and Its Application (poster). *2016 Baltimore Aging Showcases, Baltimore, MD*
3. Novel Statistical Framework to Quantify Fragmentation of Physical Activity (oral contributed). *2017 ENAR, Washington, DC*.
4. Fragmentation of Physical Activity and Its Application (oral). *2017 ICAMPAM, Bethesda, MD*.
5. Fragmentation of Daily Physical Activity: Prediction of Mortality in NHANES 2003-2006 (oral). *2017 IAGG, San Francisco, CA*.

EDITORIAL ACTIVITIES

Referee for: IAGG

HONORS & AWARDS

The Louis I. and Thomas D. Dublin Award	<i>Mar 2017</i>
Washington Statistical Society Outstanding Graduate Student Award	<i>Jun 2013</i>
Phi Beta Kappa Honor Society Inductee	<i>May 2012</i>

TEACHING EXPERIENCE

PH.140.623-4 - Statistical Methods in Public Health III-IV	<i>Spring 2017</i>
PH.140.621-2 - Statistical Methods in Public Health I-II	<i>Fall 2016</i>
PH.140.753-4 - Advanced Methods in Biostatistics III-IV	<i>Spring 2016</i>
PH.140.751-2 - Advanced Methods in Biostatistics I-II	<i>Fall 2015</i>
BIST 514 - Linear Modeling & Multivariate Analysis	<i>Spring 2014</i>

PROFESSIONAL MEMBERSHIP

Americal Statistical Association (ASA)
Washington Statistical Society (WSS)
International Biometric Society (ENAR)

CERTIFICATIONS

SAS Certified Advanced Programmer for SAS 9	<i>Aug 2013</i>
SAS Certified Base Programmer for SAS 9	<i>Jul 2013</i>

COMPUTING SKILLS

R, Matlab, SAS, \LaTeX