

JUNRUI DI

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RESEARCH INTERESTS

Statistical methods for wearable devices, 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, P.J., 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*.

In Preparation

6. Grigsby, M., **Di, J.**, Leroux, A., Checkley, W., and Crainiceanu, C.. “Novel Measures for Child Growth Model Selection”. To be submitted to *International Journal of Epidemiology*.
7. A study on extension of the fragmentation metrics.
8. A study on applying tensor decomposition for accelerometry data measured at multiple days.

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 Lifetime Membership	<i>May 2012</i>

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 IAGG, San Francisco, CA.*
4. Novel Statistical Framework to Quantify Fragmentation of Physical Activity (oral). *2017 ENAR, Bethesda, MD.*

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>

CERTIFICATIONS

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

COMPUTING SKILLS

R, Matlab, SAS, L^AT_EX