JUNRUI DI

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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*.

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	*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 IAGG, San Francisco, CA.*

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

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, LaTeX