# 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, 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*.

**In Preparation**

5. 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*.

6. Johns, J., ipunnikov, V., **Di, J.**, Swendsen, J., Merikangas, K.. "Fragmentation as a novel measure of mood stability assessed by electronic diaries". To be submitted to *Psychological Methods*.

## HONORS & AWARDS

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

## CERTIFICATIONS

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|---|---|
| SAS Certified Advanced Programmer for SAS 9 | *Aug 2013* |
| SAS Certified Based Programmer for SAS 9 | *Jul 2013* |

## COMPUTING SKILLS

R, Matlab, SAS, LaTeX