

Ryan A. Opel

Research Assistant, Computational Sleep Lab

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Employment

Research Assistant

2015 – *Present*

PVAMC Computational Sleep Lab

- Acted as primary data analyst, programmer, and statistician for this multidisciplinary lab
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Undergraduate Research Assistant

2013 – 2015

UCSB Vision & Image Understanding Lab

- Played a critical role in the development, execution, and debugging of computer-based experiments focusing on machine learning, computer vision, and human-computer visual interfaces.

Education

Oregon Health & Science University

2016

- Completed BSTA 511 with an A grade while using R in this Stata-based course

University of California, Santa Barbara

2015

B.S. Pharmacology, Biopsychology

- One entry in the list

Professional Development

Johns Hopkins University, R Programming

2015

- Completed this Johns Hopkins course through Coursera *with distinction*, achieving a grade of 99%.

Publications

Conference Abstracts (Chronological Order)

Opel RA, Weymann KB, Kuzma NN, Lim MM. *Investigating the link between head trauma, REM sleep behavior disorder, and neurodegeneration*. 2017. Submitted to American Neurological Association in Baltimore, MD.

Opel RA, Weymann KB, Kuzma NN, Lim MM. *Disruptive nocturnal behavior and elevated EMG tone during sleep in Veterans with TBI and PTSD*. 2017. Submitted to SLEEP meeting in Boston, MA. To be published in Supplement of SLEEP.

Teutsch PM, **Opel RA**, Chau AQ, Cayton J, Akins DJ, Lim MM. *Sleep and behavioral phenotype of a combined mouse model of TBI and PTSD*. 2017. Submitted to SLEEP meeting in Boston, MA. To be published in Supplement of SLEEP.

Opel RA, Akins DJ, Modarres M, Kuzma NN, Gieger MR, Lim MM. *Quantitative sleep EEG in a mouse model and in human subjects with post-traumatic stress disorder*. 2016. Submitted to Society for Neuroscience in San Diego, CA.

Hammock EAD, Champaigne RD, Cocking DL, **Opel RA**, Driessen RC, Lim MM. *Developmental sleep fragmentation impairs social development in male, but not female, prairie voles*. 2016. Submitted to SLEEP meeting in Denver, CO. To be published in Supplement of SLEEP.

Akins DJ, **Opel RA**, Modarres M, Kuzma NN, Gieger MR, Lim MM. *Sleep disruption predicts fearful behavior in a mouse model of post-traumatic stress disorder*. 2016. Submitted to SLEEP meeting in Denver, CO. To be published in Supplement of SLEEP.

Opel RA, Akins DJ, Modarres M, Kuzma NN, Gieger MR, Lim MM. *Quantitative EEG during sleep is associated with PTSD in mice and men*. 2016. OHSU Research Week.

Hammock EAD, Cocking DL, Champaigne RD, **Opel RA**, Driessen RC, Lim MM. *Early post-natal sleep fragmentation prevents normal social development in male, but not female, prairie voles*. 2016. Submitted to 2nd-annual Gordon Research Conference meeting on Sleep Regulation and Function in Galveston, TX.

Journal Articles

Opel RA, Akins DA, Modarres M, Kuzma NN, Cocking DL, Lim MM. *Sleep EEG signatures predict outcomes in post-traumatic stress disorder*. 2017. (In Preparation)

Elliott JE, Weymann KB, Barsalou Y, Geiger M, Teutsch P, **Opel RA**, Oken BS, Lim MM. *Sleep disturbances and chronic pain in Veterans with mild traumatic brain injury*. *SLEEP*, 2017. (Under Review)

Elliott JE, De Luche SE, Churchill MJ, **Opel RA**, Cocking DL, Moore C, Meshul CK, Lim MM. *Decreased glutamatergic input to orexin neurons after mild TBI is restored by dietary BCAA supplementation in mice*. 2017. (In Preparation)

Navis, TM, Jones, CE, **Opel RA**, Lim MM. *Effect of Sleep Disturbance on Sensory Gating in the Prairie Vole*. 2016. (In Preparation)

Invited Talks

Opel RA. *Sleep Disruption Is Associated with Fearful Behavior In A Mouse Model Of Post-traumatic Stress*. 2016. SLEEP Meeting, Denver, CO.

Opel RA. *Developmental Sleep Fragmentation Impairs Social Development In Male, But Not Female, Prairie Voles*. 2016. SLEEP Meeting, Denver, CO.

Competencies

Languages & Scripting:

R, Python, PowerShell, Excel/VBA, bash, HTML/CSS

References

Miranda Lim

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Sleep Disorders Clinic,
VA Portland Health Care System
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Mike Lasarev

Senior Instructor,
Department of Public Health,
Oregon Health & Science University
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Nick Kuzma

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