

# Joshua F. Wiley

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**Present Appointment:** Lecturer (tenure-track), Monash University

## EDUCATION

<i>Doctor of Philosophy</i> – University of California, Los Angeles	2010 – June 2015
<i>Master of Arts</i> – University of California, Los Angeles	2010 – 2011
<i>Bachelor of Arts</i> – University of California, Riverside (with honors)	2006 – 2010
<i>General Coursework</i> – Riverside Community College	2002 – 2005

## WORK EXPERIENCE

<i>Monash University</i>	June 2016 – Present
<i>Monash Institute of Cognitive and Clinical Neurosciences, School of Psychological Sciences</i>	
Lecturer (tenure-track Assistant Professor)	
<i>Australia Catholic University</i>	January 2015 – June 2016
Post Doctoral Research Fellow	
<i>University of California, Los Angeles</i>	June 2010 – June 2015
Doctoral Student and Researcher: Stress & Coping Lab	
Graduate researcher: My Year After Study (1R01 CA133081)	July 2013 – March 2015
Programmer analyst: IDRE Statistical Consulting Group	August 2011 – June 2013
<i>Elkhart Group Ltd.</i>	June 2013 – December 2016
Senior Partner / Advisor from 2015	
<i>University of California, Riverside</i>	September 2008 – June 2010
Honors student and research assistant: Professor Howard Friedman's Laboratory	

## PROFESSIONAL SERVICE

<i>Editorial Board Member: Sleep</i>	2017 – current
<i>Academic Editor: PLoS ONE</i>	2017 – current
<i>Vice Chair: Society for Health Psychology Research Council</i>	2015 – current
<i>Member: organizing committee: useR! 2014 international conference</i>	2014 – 2014
<i>Ad Hoc Reviewer</i>	
National Health and Medical Research Council (NHMRC) project grants.	
<i>Psychosomatic Medicine; Health Psychology; American Journal of Preventive Medicine; Journal of Hypertension; Journal of Consulting and Clinical Psychology; Translational Psychiatry; Journal of Health Psychology; PLoS ONE; International Journal of Cardiology; European Journal of Cardiovascular Nursing; Frontiers in Psychology; R Journal; Xie, Y. (2013). Dynamic Documents with R and knitr. Chapman &amp; Hall/CRC Press. ISBN: 978-1-48220-353-0; Packt Publishing (R Graph Cookbook, 2nd ed.; Statistical Analysis with R). Society for Health Psychology Annual Meeting; American Psychosomatic Society Annual Meeting.</i>	

## PUBLICATION SUMMARY

**Published/In Press:** 10 first/last & 20 co-author peer reviewed articles; 3 books; 7 other pubs; 18 first/last & 23 co-author peer reviewed abstracts; 7 invited presentations; 6 software packages developed/co-developed.

## RESEARCH SUMMARY

I study the roles of risk and protective factors in the psychological and biological response to stress and chronic disease. Specifically, I am interested in affective science and understanding the protective role of emotion regulation factors including psychosocial resources (e.g., optimism, social support) and approach and avoidance-oriented coping processes. I study *whether* and *how* these factors promote adjustment and health to stressful experiences including living with chronic disease such as cancer as well as other stressors. To understand *how* psychosocial factors lead to better health, I examine behavioral (e.g., sleep, physical activity) and physiological mechanisms (e.g., cortisol, inflammation). Examples of questions my research addresses are:

- (1) What are the trajectories of mental and physical health in response to stress and are these predicted by resources or coping strategies?
- (2) What are the behavioral/physiological mechanisms linking psychosocial factors with health?
- (3) What are the characteristics of people who are resilient to or recover quickly from adverse events?

## PEER REVIEWED PUBLICATIONS

### In Press

30. Hallquist, M. N. & **Wiley, J. F.** (in press). MplusAutomation: An R Package for Facilitating Large-Scale Latent Variable Analyses in Mplus. *Structural Equation Modeling*.
29. Bei, B., Seeman, T. E., Carroll, J. E., & **Wiley, J. F.** (in press). Sleep and physiological dysregulation: a closer look at sleep intraindividual variability. *Sleep*.
28. **Wiley, J. F.**, Chan, Y.-K., Ahamed, Y., Ball, J., Carrington, M. J., Riegel, B., & Stewart, S. (in press). Multimorbidity and the risk of all cause 30-day readmission in the setting of multidisciplinary management of chronic heart failure: A retrospective analysis of 830 hospitalized patients in Australia. *Journal of Cardiovascular Nursing*. doi: 10.1097/JCN.0000000000000391
27. Weihs, K., L. **Wiley, J. F.**, Crespi, C. M., Krull, J. L., & Stanton, A. L. (in press). Predicting future major depression and persistent depressive symptoms: Development of a prognostic screener and PHQ4 cutoffs in breast cancer patients. *Psycho-Oncology*.
26. Bauer, M. R., **Wiley, J. F.**, Weihs, K. L., & Stanton, A. L. (in press). Stuck in the spin cycle: Avoidance and intrusions following breast cancer diagnosis. *British Journal of Health Psychology*. doi: 10.1111/bjhp.12252
25. Harris, L. N., Bauer, M. R., **Wiley, J. F.**, Hammen, C., Krull, J. L., Crespi, C. M., Weihs, K. L., & Stanton, A. L. (in press). Chronic and episodic stress predict physical symptom bother following breast cancer diagnosis. *Journal of Behavioral Medicine*.
24. Rapp, D. E., Dolat, M. E., **Wiley, J. F.**, & Rowe, B. (in press). Effect of concurrent prolapse repair on stress urinary incontinence outcomes following TVTO. *Female Pelvic Medicine & Reconstructive Surgery*. doi: 10.1097/SPV.0000000000000364

### 2017

23. **Wiley, J. F.**, Bei, B., Bower, J. E., & Stanton, A. L. (2017). Relations of psychosocial resources with allostatic load: A Systematic review. *Psychosomatic Medicine*, 79(3), 283-292. doi: 10.1097/PSY.0000000000000395
22. Carrington, M. J., Cohen, N., & **Wiley, J. F.** (2017). Blood glucose levels and glycaemic burden in 76,341 patients attending primary care: Bittersweet findings from a 9-year cohort study. *Diabetes Research and Clinical Practice*, 127, 89-96. doi: 10.1016/j.diabres.2017.02.030
21. Bei, B., Manber, R., Trinder, J. & **Wiley, J. F.** (2017). Too long, too short, or too variable? Sleep intraindividual variability and its associations with perceived sleep quality and mood in adolescents during naturalistically unconstrained sleep. *Sleep*, 40(2). doi: 10.1093/sleep/zsw067

### 2016

20. Stewart, S., **Wiley, J. F.**, McDermott, C. J., & Thompson, D. R. (2016). Is the last “man” standing in comedy the least funny? A retrospective cohort study of elite stand-up comedians versus other entertainers. *International Journal of Cardiology*, 220. 789-793. doi: 10.1016/j.ijcard.2016.06.284

19. **Wiley, J. F.** & Carrington, M. J. (2016). A metabolic syndrome severity score: A tool to quantify cardio-metabolic risk factors. *Preventive Medicine, 88*, 189-195. doi: 10.1016/j.ypmed.2016.04.006
18. **Wiley, J. F.**, Gruenewald, T. L., Karlamangla, A. S., & Seeman, T. E. (2016). Modeling Multisystem Physiological Dysregulation. *Psychosomatic Medicine, 78*(3), 290-301. doi: 10.1097/PSY.0000000000000288
17. **Wiley, J. F.**, Cleary, E. H., Karan, A., & Stanton, A. L. (2016). Disease controllability moderates the effect of coping efficacy on positive affect. *Psychology & Health, 31*(4), 498-508. doi: 10.1080/08870446.2015.1094570.
16. Bei, B., **Wiley, J. F.**, Trinder, J. & Manber, R. (2016). Beyond the mean: A systematic review on the correlates of daily intraindividual variability of sleep/wake patterns. *Sleep Medicine Reviews, 28*, 104-120. doi: 10.1016/j.smr.2015.06.003.
15. Bauer, M. R., Harris, L. N., **Wiley, J. F.**, Crespi, C. M., Krull, J. L., Weihs, K. L., & Stanton, A. L. (2016). Dispositional and situational avoidance and approach as predictors of physical symptom bother following breast cancer diagnosis. *Annals of Behavioral Medicine*. doi: 10.1007/s12160-015-9763-7.
14. Stewart, S., **Wiley, J. F.**, Ball, J., Chan, Y.-K., Ahamed, Y., Thompson, D. R., & Carrington, M. J. (2016). Impact of nurse-led, multidisciplinary home-based intervention on event-free survival across the spectrum of chronic heart disease: Composite analysis of health outcomes in 1226 patients from 3 randomized trials. *Circulation, 133*, 1867-1877. doi: 10.1161/CIRCULATIONAHA.116.020730.

## 2015

13. Menkin, J. A., Robles, T. F., **Wiley, J. F.**, & Gonzaga, G. C. (2015). Online dating across the lifespan: Users' relationship goals. *Psychology and Aging, 30*(4), 987-993. doi: 10.1037/a0039722
12. Stanton, A. L., **Wiley, J. F.**, Krull, J. L., Crespi, C. M., Hammen, C., Allen, J. J. B., Barron, M. L., Jorge, A., & Weihs, K. L. (2015). Depressive episodes, symptoms, and trajectories in women recently diagnosed with breast cancer. *Breast Cancer Research and Treatment, 154*(1), 105-115. doi: 10.1007/s10549-015-3563-4
11. Neville, T. H., **Wiley, J. F.**, Yamamoto, M. C., Flitcraft, M., Anderson, B., Curtis, J. R., & Wenger, N. S. (2015). Concordance of nurses and physicians on whether critical care patients are receiving futile treatment. *American Journal of Critical Care, 24*(5), 403-410. doi: 10.4037/ajcc2015476
10. Hale, T. S., **Wiley, J. F.**, Tung, K., Kaminski, O., McGough, J. M., McCracken, J. T., Loo, S. K. (2015). A parietal biomarker for ADHD liability: As predicted by The Distributed Effects Perspective Model of ADHD. *Frontiers in Psychiatry, 63*(6), 1-19. doi: 10.3389/fpsy.2015.00063.
9. Bei, B., **Wiley, J. F.**, Allen, N. & Trinder, J. (2015). A cognitive vulnerability model of sleep and mood in adolescents under naturalistically restricted and extended sleep opportunities. *Sleep, 38*(3), 453-461. doi: 10.5665/sleep.4508
8. Neville, T. H., **Wiley, J. F.**, Holmboe, E. S., Tseng, C-H, Vespa, P. M., Klerup, E. C. & Wenger, N. S. (2015). Differences between attendings' and fellows' perceptions of futile treatment in the intensive care unit at one academic health center: Implications for training. *Academic Medicine, 90*(3), 324-330. doi: 10.1097/ACM.0000000000000617

## 2014

7. Brown, L. A., **Wiley, J. F.**, Wolitzky-Taylor, K., Roy-Byrne, P., Sherbourne, C., Stein, M. B., ... Craske, M. G. (2014). Changes in self-efficacy and outcome expectancy as predictors of anxiety outcomes from the CALM study. *Depression and Anxiety, 31*(8), 678-689. doi: 10.1002/da.22256
6. Ortiz Parada, M., **Wiley, J. F.**, & Chiang, J. J. (2014). How stress gets under the skin o Como el estrés psicológico se mete bajo tu piel. *Revista Médica de Chile, 142*(6). 767-774.
5. Hale, T. S., Kane, A. M., Kaminsky, O., Tung, K. L., **Wiley, J. F.**, McGough, J. J., Loo, S. K., & Kaplan, J. T. (2014). Visual Network Asymmetry and Default Mode Network Function in ADHD: An fMRI Study. *Frontiers in Psychiatry, 5*(81), 1-20. doi: 10.3389/fpsy.2014.00081.
4. Dour, H. J., **Wiley, J. F.**, Roy-Byrne, P., Stein, M. B., Sullivan, G., Sherbourne, C. D., Bystritsky, A., Rose, R. D., & Craske, M. G. (2014). Perceived social support mediates anxiety and depressive

symptom changes following primary care intervention. *Depression and Anxiety*, 31(5), 436-442. doi: 10.1002/da.22216

3. Langley, A. K., Falk, A., Peris, T., **Wiley, J. F.**, Kendall, P. C., Ginsburg, G., Birmaher, B., March, J., Albano, A. M. & Piacentini, J. (2014). The Child Anxiety Impact Scale: Examining parent- and child-reported impairment in child anxiety disorders. *Journal of Clinical Child & Adolescent Psychology*, 43(4), 579-591. doi: 10.1080/15374416.2013.817311

## 2013

2. Huynh, T. N., Klerup, E. C., **Wiley, J. F.**, Savitsky, T. D., Guse, D., Garber, B. J. & Wenger, N. S. (2013). The Frequency and cost of treatment perceived to be futile in critical care. *JAMA Internal Medicine*, 173(20), 1887-1894. doi: 10.1001/jamainternmed.2013.10261
1. **Wiley, J. F.**, Laird, K., Beran, T. M., McCannel, T. A., & Stanton, A. L. (2013). Quality of life and cancer-related needs in patients with choroidal melanoma. *British Journal of Ophthalmology* 97(11), 1471-1474. doi: 10.1136/bjophthalmol-2013-303635

## OTHER PUBLICATIONS

### Book Chapters/Sections

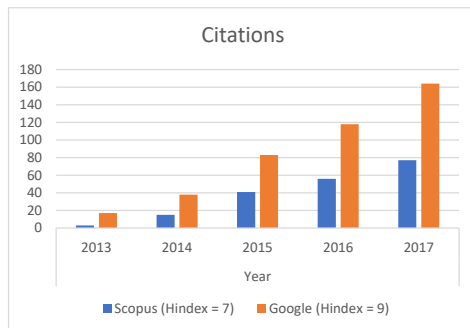
3. **Wiley, J. F.**, Gruenewald, T. L., & Seeman, T. E., (under review). Psychosocial resources and physiological dysregulation. in C. D. Ryff & R. F. Krueger (Eds.) *Oxford Handbook of Integrative Health Science*. Oxford University Press.
2. Moreno, P. I., **Wiley, J. F.**, & Stanton, A. L. (in press). Coping through emotional approach: Emerging evidence for the utility of processing and expressing emotions in responding to stressors. in S. J. Lopez, L. Edwards, & S. Marques (Eds.) *Oxford Handbook of Positive Psychology (3rd ed.)*. New York: Oxford University Press.
1. **Wiley, J. F.** & Stanton, A. L. (2016). Cancer and Mental Health. In Howard S. Friedman (Editor in Chief), *Encyclopedia of Mental Health*. 2nd edition, Vol 1, Waltham, MA: Academic Press, 2016, pp. 228-232. doi: 10.1016/B978-0-12-397045-9.00150-6

### Books

4. Wiley, M. & **Wiley, J. F.** (in prep, expected 2018/9). *Advanced R: Statistical Programming and Data Models*, Apress.
3. Wiley, M. & **Wiley, J. F.** (2016). *Advanced R: Data Programming and the Cloud*, 1st edition, Apress. ISBN: 978-1-4842-2076-4. doi: 10.1007/978-1-4842-2077-1
2. **Wiley, J. F.** (2016). *R Deep Learning Essentials*, Packt. ISBN: 978-1-785280-58-0
1. **Wiley, J. F.** & Pace, L. (2015). *Beginning R: An Introduction to Statistical Programming*, 2nd edition, Apress. ISBN: 978-1-484203-74-3. doi: 10.1007/978-1-4842-0373-6

### Commentaries/Letters to the Editor

5. **Wiley, J. F.** (2017). Birth Cohort or Measurement Protocol Differences? *Journal of Hypertension*.
4. **Wiley, J. F.** (2017). Leveraging nationwide health databases to strengthen research on risk factors. *Journal of Hypertension*, 35(4), 713-714. doi: 10.1097/HJH.0000000000001273.
3. **Wiley, J. F.**, Gruenewald, T. L., Karlamangla, A. S., & Seeman, T. E. (2017). Pursuing the Optimal Operationalization of Allostatic Load. *Psychosomatic Medicine*, 79(1), 119-121. doi: 10.1097/PSY.0000000000000416.
2. **Wiley, J. F.** (2016). Beyond the mean: The future of cohort studies in cardiovascular disease. *Journal of Hypertension*, 34(10), 1945-1947. doi: 10.1097/hjh.0000000000001061.
1. **Wiley, J. F.** (2014). Growth Curve Analysis and Visualization Using R. *Journal of Statistical Software, Book Reviews*, 58(2). URL: <http://www.jstatsoft.org/v58/b02>



## SOFTWARE

6. **MplusAutomation**: Co-developer of **MplusAutomation** cited by *>40 papers*. Available online at <http://cran.r-project.org/package=MplusAutomation>  
Source code at <https://github.com/michaelhallquist/MplusAutomation/>  
For a list of papers citing **MplusAutomation**, see:  
<https://github.com/michaelhallquist/MplusAutomation/wiki/Publications-with-MplusAutomation>
5. **varian**: Developer and maintainer of the R package, **varian**, to quantify and model variability as a latent variable using Bayesian models. Available online from <https://github.com/ElkhartGroup/varian>.
4. **pscore**: Developer and maintainer of the R package, **pscore**, a supplement to the **Standardizing Physiological COmposite Risk, Endpoints (SCORE) Project**, to facilitate creation and comparison of various biomarker composites. Available online from <http://score-project.org>.
3. **JWileymisc**: Developer and maintainer of the R package, **JWileymisc**, that provides utility functions facilitate data checking and visualization of assumptions as a first step to further data analyses. Available online from <https://github.com/JWiley/JWileymisc>.
2. **pai**: Developer and maintainer of the R package, **pai**, to estimated a personalized advantage index (PAI) using multiply imputed data with cross-validation, and optionally bootstrapping to construct confidence intervals.. Available online from <https://github.com/JWiley/pai>. Citation: Wiley, J. F. (2014). *pai: Calculate bootstrapped and cross-validated personalized advantage index*. R package version 0.1. doi: 10.5281/zenodo.13011.
1. **postMCMCglm**: Developed the R package **postMCMCglm** to calculate average marginal probabilities from multilevel Bayesian models. Available online from <https://github.com/jwiley/postMCMCglm>. Citation:  
Wiley, J. F. (2013). *postMCMCglm: Average marginal predicted probabilities from Bayesian ordered probit models*. R package version 0.1-2. doi: 10.5281/zenodo.11461.

## PEER REVIEWED ABSTRACTS, PRESENTATIONS, & SYMPOSIA

### First/Last Author (\* denotes student first author)

18. **Wiley, J. F.**, Rice-Lacy, R. C., Yap, Y. Y., Tuck, D., Stanton, A. L., & Bei, B. (2018). *Coping Moderates the Relationship between Stress and Negative Affect: A 12-day Diary Study*. **XXX presentation** at the Annual Meeting of the American Psychosomatic Society.
17. \*Rice-Lacy, R. C., Yap, Y. Y., & **Wiley, J. F.**. (2018). *Daily Stress and Physical Activity Predict Positive and Negative Affect: A 12-day Ecological Momentary Assessment Study in Young Adults*. **XXX presentation** at the Annual Meeting of the American Psychosomatic Society.

16. **Wiley, J. F.**, Kogan, A. V., Allen, J. J. B., Stanton, A. L., & Weighs, K. L. (2018). *Heart Rate Variability Interacts with Contextual Life Stress and Coping to Predict Depressive Symptom Trajectories: A Prospective Cohort Study in Women with Breast Cancer*. **Symposium presentation** at the Annual Meeting of the American Psychosocial Oncology Society.
15. **Wiley, J. F.**, Bower, J. E., Petersen, L., & Ganz, P. A. (2017). *Trajectories of C-reactive protein in the year after breast cancer treatment*. Poster presentation at the Annual Meeting of the PsychoNeuroimmunology Research Society.
14. **Wiley, J. F.** (2017). *Lifespan Trajectories of Sleep Quality Predict Mortality in the Midlife in the United States Study*. **Oral presentation** at the Annual Meeting of the Associated Professional Sleep Societies.
13. **Wiley, J. F.** (2017). *A matter of life and death: Psychosocial stress predicts all-cause mortality over 20 years*. **Oral presentation** at the American Psychosomatic Society.
12. **Wiley, J. F.** (2016). *Stress and sleep: Are all stressors equal?*. **Oral presentation** at the Annual Meeting of the Associated Professional Sleep Societies.
11. **Wiley, J. F.**, Seeman, T. E., Bower, J. E., & Stanton, A. L. (2016). *Testing the Reserve Capacity Model in the Midlife in the United States study*. **Oral presentation** at the Annual Meeting of the American Psychosomatic Society.
10. **Wiley, J. F.**, Weihs, K. L., Crespi, C. M., Krull, J. L., Allen, J. J.B., & Stanton, A. L. (2016). *Intraindividual variability in cancer-related avoidance coping predicts depressive symptoms*. Poster presentation at the Annual Meeting of the American Psychosomatic Society.
9. **Wiley, J. F.** & Carrington, M. J. (2016). *A metabolic syndrome severity score: A tool to quantify cardio-metabolic risk*. Poster presentation at the Annual Meeting of the American Psychosomatic Society.
8. **Wiley, J. F.**, Bei, B., Trinder, J., & Manber, R. (2015). *Daily sleep variability quantified: A reliable and flexible approach*. **Oral presentation** at the Annual Meeting of the Associated Professional Sleep Societies.
7. **Wiley, J. F.**, Gruenewald, T. L., Karlamangla, A., Stanton, A. L., & Seeman, T. E. (2015). *A Constellation of Psychosocial Resources are Associated with Lower Allostatic Load*. **Oral presentation** at the Annual Meeting of the American Psychosomatic Society.
6. **Wiley, J. F.**, Cleary, L., Karan, A., & Stanton, A. L. (2015). *Effects of Approach- and Avoidance-Oriented Coping Depend on Disease Controllability*. Poster presentation at the Annual Meeting of the American Psychosomatic Society.
5. **Wiley, J. F.**, Gruenewald, T. L. & Seeman, T. E. (2014). *Measurement of allostatic load in adults aged 34-84 in the Midlife in the United States Study*. Poster presented at the Annual Meeting of the American Psychosomatic Society.
4. **Wiley, J. F.**, Huynh, T. N., & Wenger, N. S. (2013). *Methods for intuitive presentations of hierarchical categorical models: An example predicting futile treatment in critical care*. Poster presented at Modern Modeling Methods.
3. **Wiley, J. F.**, Kane, H. S., Dunkel Schetter, C., & Robles, T. (2013). *Social constraint and romantic partner support predict salivary cortisol and alpha-amylase trajectories during an acute social stressor*. Poster presented at the Annual Meeting of the Society for Behavioral Medicine.
2. **Wiley, J. F.**, Laird, K., Beran, T. M., McCannel, T. A., & Stanton, A. L. (2012). *Quality of Life and Cancer-Related Needs in Choroidal Melanoma Survivors*. Poster presented at the Annual Meeting of the Society for Behavioral Medicine.
1. **Wiley, J. F.** (2010). *Relations of Personality and Occupation with Alcohol Consumption*. **Oral presentation** at the annual UC Riverside Symposium for Undergraduate Research, Scholarship and Creative Activity.

#### Co-Authored

24. Nguyen, T., Spencer-Smith, M., Doyle, L., Haebich, K., **Wiley, J. F.**, & Anderson, P. J. (2018). *Developmental trajectories of language in children born very preterm and full term*. Submitted to the Annual Congress of the Perinatal Society of Australia and New Zealand.
23. Huynh, T. N., Yamamoto, M., **Wiley, J. F.**, & Wenger, N. S. (2017). *Resource Utilization and Description of Patients Perceived as having Received Inappropriate Critical Care*. Poster presentation at the University of California Los Angeles Department of Medicine Research Day.

22. Bauer, M. R., **Wiley, J. F.**, Weihs, K. L., & Stanton, A. L. (2017). *Stuck in the spin cycle: Avoidance and intrusions following breast cancer diagnosis*. Annual Meeting of the Society for Behavioral Medicine.
21. Bei, B., **Wiley, J. F.**, Carroll, J. E., & Seeman, T. E. (2016). *Intraindividual variability in actigraphy-assessed sleep is related to allostatic load*. **Oral presentation** at the Annual Meeting of the American Psychosomatic Society.
20. Hertz, K. L., **Wiley, J. F.**, Jorge, A., Beran, T. M., McCannel, T. A., & Stanton, A. L. (2016). *Prospective predictors of post-traumatic growth in patients with ocular melanoma*. For presentation at the Annual Meeting of the American Psychosomatic Society.
19. Ball, J., **Wiley, J. F.**, Carrington, M. J., Løchen, M., & Sewart, S. (2016). Effectiveness of Disease Management in Atrial Fibrillation Patients is Modulated by Mild Cognitive Impairment. Cardiac Society of Australia and New Zealand.
18. Stewart, S., **Wiley, J. F.**, Chan, Y.K., Ball, J., Thompson, D. R., & Carrington, M. J. (2015). Prolonged event-free survival in more complex cases of heart disease: Outcome data from 1,226 patients from 3 randomised trials of nurse-led multidisciplinary home-based intervention. European Society of Cardiology Congress.
17. Bei, B., **Wiley, J. F.**, Trinder, J., & Manber, R. (2015). *Beyond the mean: A systematic review on the correlates of daily sleep variability*. Poster presentation at the Australasian Sleep Association.
16. Bei, B., **Wiley, J. F.**, Allen, N., Manber, R., & Trinder, J. (2015). *Too long, too short, or too variable? Variability of daily actigraphy sleep, perceived sleep quality, and negative mood in adolescents*. Poster presentation at the Australasian Sleep Association.
15. Bei, B., **Wiley, J. F.**, Trinder, J., & Manber, R. (2015). *Beyond the mean: A systematic review on the correlates of daily sleep variability*. Poster presentation at the Annual Meeting of the Associated Professional Sleep Societies.
14. Bei, B., **Wiley, J. F.**, Allen, N., Manber, R., & Trinder, J. (2015). *Too long, too short, or too variable? Variability of daily actigraphy sleep, perceived sleep quality, and negative mood in adolescents*. Poster presentation at the Annual Meeting of the Associated Professional Sleep Societies.
13. Kane, H. S., **Wiley, J. F.**, Dunkel-Schetter, C., & Robles, T. F. (2015). *The Effect of Emotional Approach Coping, Social Support and Emotional Expression on Stress Reactivity: An Experimental Test*. **Oral** presentation at the Annual Meeting of the American Psychosomatic Society.
12. Weihs, K. L., Kogan, A. V., **Wiley, J. F.**, Stanton, A. L., & Allen, J. J. B. (2015). *Cardiac Vagal Control and Coping Strategies as Predictors of Depression in Breast Cancer*. **Oral** presentation at the Annual Meeting of the American Psychosomatic Society.
11. Harris, L. N., Bauer, M. R., **Wiley, J. F.**, Weihs, K. L., & Stanton, A. L. (2015). *Coping in context: Examining predictors of physical symptoms in breast cancer patients*. Poster presentation at the Annual Meeting of the American Psychosomatic Society.
10. Hertz, K. L., **Wiley, J. F.**, McCannel, T. A., & Stanton, A. L. (2015). *A Test of the Impact-Engagement Model of Post-Traumatic Growth in Patients with Ocular Melanoma*. Poster presentation at the Annual Meeting of the Society for Behavioral Medicine.
9. Bauer, M. R., Hanover, L. N., **Wiley, J. F.**, Weihs, K. L., & Stanton, A. L. (2015). *Role of Situational and Dispositional Coping in Physical Health-Related Adjustment to Breast Cancer*. Poster presentation at the Annual Meeting of the Society for Behavioral Medicine.
8. Bei, B., **Wiley, J. F.**, Allen, N. & Trinder, J. (2014). *Testing a cognitive vulnerability model on sleep and mood in adolescents under restricted and extended sleep opportunities*. **Oral** Presentation at the Australasian Sleep Association.
7. Neville, T. N., **Wiley, J. F.**, Flitcraft, M., Anderson, B., Yamamoto, M, Curtis, J. R., & Wenger, N. S. (2014). *Nurse and physician concordance on whether critical patients are receiving treatment perceived to be futile: Opportunity for collaboration*. Poster presentation at the Annual Meeting of the American Society for Bioethics and Humanities.
6. Dour, H. J., Cohen, Z. D., Mesri, B., **Wiley, J. F.**, Niles, A. N, DeRubeis, R. J., & Craske, M. G. (2014). *To ACT or to CBT? Using prediction models to identify which treatment to implement for an anxious patient*. **Oral** presentation at the annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.

5. Bauer, M. R., **Wiley, J. F.**, Weihs, K. L., & Stanton, A. L. (2014 May). *Situational and Dispositional Avoidance Coping in Adjustment to Breast Cancer*. Poster presented at 26th annual meeting of the Association for Psychological Science, San Francisco, CA.
4. Huynh, T. H., **Wiley, J. F.**, Tseng, C-H., Vespa, P. M., Klerup, E. C. & Wenger, N. S. (2014). *Differences between attendings' and fellows' perceptions of inappropriate treatment in the intensive care unit*. **Oral** presentation in the ICU Utilization and Outcomes symposium at the Annual Meeting of the American Thoracic Society. American Journal of Respiratory Critical Care Medicine, 189, pp. A2187.
3. Weihs, K. L., **Wiley, J. F.** & Stanton, A. L. (2014). *Acceptance of Emotions Buffers Chronic Stress and Predicts Decline in Depressive Symptoms after Breast Cancer Diagnosis*. Poster presented at the Annual Meeting of the American Psychosomatic Society.
2. Weihs, K. L., **Wiley, J. F.** & Stanton, A. L. (2013). *Prospective, Longitudinal study of Emotion Acceptance and Stress Effects on Depression after Breast Cancer*. Poster Presentation for the Frontiers in Science Colloquium, Arizona Health Sciences Center, Tucson, AZ. October 29, 2013.
1. Huynh, T. N., **Wiley, J. F.**, Klerup, E. C., & Wenger, N. S. (2013). *The Frequency and Cost of Futile Treatment in Critical Care*. **Oral** presentation at the Annual Meeting of the American Society for Bioethics and Humanities.

#### INVITED ABSTRACTS, PRESENTATIONS, & SYMPOSIA

7. **Wiley, J. F.** (2018). *Modern Missing Data Models*. **Oral presentation** at the Treatment Selection Idea Lab 2018 Annual Meeting at the University College London.
6. **Wiley, J. F.** (2017). *Stress & Health in MIDUS*. Invited presentation at the MIDUS Meeting at the University of Wisconsin-Madison.
5. **Wiley, J. F.** (2016). *Computational Interfaces*. **Oral presentation** at the Treatment Selection Idea Lab 2016 Annual Meeting on “New Directions in Treatment Selection” at the University of Pennsylvania.
4. **Wiley, J. F.** (2016). *Stress, coping resources, and pathways to health: Testing the biopsychosocial model*. Colloquium presented to post doctoral researchers at the Mary MacKillop Institute for Health Research, Australian Catholic University.
3. **Wiley, J. F.** (2016). *Testing the Biopsychosocial Model: The Intersection of Health Psychology and Quantitative Science*. Colloquium presented to faculty and staff at the Brown University Department of Psychiatry and Human Behavior.
2. **Wiley, J. F.** (2013). *Mplus Automation: Dynamic Models & Documents with R*. Invited guest lecture at Modern Modeling Methods post conference workshop with Dr. Bengt Muthén. Available from: <https://www.youtube.com/watch?v=Rm77PTrq6VY>
1. **Wiley, J. F.** (2012). *An integrative approach to psychosocial resources and health*. Presentation at the University of California Los Angeles Health Psychology Colloquium.

#### GRANTS

3. **2015**. Pilot Awardee, NIH Stress Measurement Network.  
\$5,000 USD (\$6,786 AUD).
2. **2011 - 2013**. Health Psychology-Population Sciences Training Grant (NIGMS T32GM084903).  
approx. \$73,164 USD (\$99,159 AUD).
1. **2011**. Graduate Summer Research Mentorship Award, UC Los Angeles.  
\$2,500 USD (\$3,389 AUD).



## HONORS & AWARDS

Ian Potter Foundation Travel Award \$1500 AUD (\$1,132 USD)	2017
Australasian Sleep Association Peer Prize in Sleep Research \$500 AUD (\$377 USD)	2017
American Psychosomatic Society Young Investigators Colloquium Award \$1370 USD (\$1,936 AUD)	2016
Second Place, Early Career Competition, MMIHR, ACU (\$500 AUD)	2016
Accepted and funded to attend the Stanford Workshop in Biodemography	2013
Chancellor's Award for Excellence in Undergraduate Research, UC Riverside	2010
Upper Division Honor's Program, UC Riverside	2009 & 2010
Chancellor's List, UC Riverside	2009 & 2010
Dean's Academic Distinction Award, UC Riverside	2009 & 2010
Dean's List, UC Riverside	2008 – 2010
Summer Academy for Advanced High School Students (with Honors), UC Riverside	2006 – 2008
President's Honor Recital, Riverside Community College	2005

## MEMBERSHIPS

Society for Health Psychology (APA Division 38)	2011
Society for Behavioral Medicine	2011
American Psychosomatic Society	2013
Sleep Research Society	2016
Psycho-Oncology Collaborative Research Group	2016
Australasian Society of Behavioural Health and Medicine	2016

## TEACHING AND SUPERVISION

### Monash University

- current Lecturer and chief examiner for Research Methods & Theory, 2016 - present
- current Lecturer into Psychological Assessment, 2016 - present
- current Lecturer into Community and Mental Health, 2016 - present
- current Lecturer into Introductory Psychology, 2016 - present

### Doctoral Students, \*primary supervisor

- current Helena Bean\*, Monash University, 1 January 2017 - present  
25% load, Doctorate by Research (Doctorate of Clinical Psychology),  
Project Title: Cognitive Behavioural and Bright Light Therapy for Better Sleep and Wellbeing in Breast Cancer: A Randomized Controlled Trial during Cancer Treatment.
- current Lin Shen, Monash University, 1 January 2017 - present  
10% load, Doctorate by Research (Doctor of Philosophy),  
Project Title: Sleep, affect, and daytime functioning: A naturalistic study of adolescents' daily experiences.

## TECHNICAL SKILLS

### Statistical & Mathematical

- Mastery of mixed effects and latent variable models
- Biostatistics experience: survival models, ROC analysis, propensity scores, RCT evaluation
- Missing data experience: multiple imputation, full information maximum likelihood, joint models, non ignorable missingness with latent class/mixture analysis
- Psychological experience: latent variable models for factor analysis, structural equation models, growth models, parallel process models
- Machine learning experience: random forests (including for survival), gradient boosting machines, gradient boosting machines, deep and convolutional neural networks, lasso, support vector machines
- Specialty Topics: Bayesian factor analysis and SEM, location and scale models for modeling intra-individual variability in intensive longitudinal studies

Mastery of R and Mplus

Proficient with major packages including SAS Analytics, Stata, IBM SPSS Statistics

Experience with specialty analytics software including STAN, JAGS, OpenMx, EQS

Doctorate level statistics coursework in biostatistics, statistics, and quantitative psychology

### **Software**

Mastery of R: A language and environment for statistical computing

L<sup>A</sup>T<sub>E</sub>X, BibTeX, HTML5, CSS, php

bash, git, GNU Emacs, JSON, SQL, Microsoft Office, Visio

Windows, Ubuntu