

Daniel Gustavson

Curriculum vitae

January 2020

Vanderbilt University Medical Center
Department of Medicine
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Nashville, TN 37232

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EDUCATION

- | | |
|------|---|
| 2016 | Ph.D. in Cognitive Psychology, with Graduate Certificate in Behavioral Genetics & Graduate Certificate in Quantitative Methods for Behavioral Sciences, University of Colorado Boulder, Department of Psychology and Neuroscience |
| 2013 | M.A. in Cognitive Psychology, University of Colorado Boulder, Department of Psychology and Neuroscience |
| 2011 | B.A. in Psychology, University of Colorado Boulder, Department of Psychology and Neuroscience |

Dissertation: Gustavson, D. E. (2016). *Investigating the cognitive underpinnings of procrastination: An intervention study and a longitudinal analysis* (Doctoral dissertation). https://scholar.colorado.edu/psyc_gradetds/100

EMPLOYMENT

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| 2020 – present | Research Instructor. Department of Medicine, Division of Genetic Medicine, Vanderbilt University Medical Center. |
| 2019 | Staff Scientist. Department of Otolaryngology, Vanderbilt University Medical Center. |
| 2016 – 2019 | Postdoctoral Scholar. Department of Psychiatry, University of California, San Diego. Advisor: William Kremen |
| 2016 | Postdoctoral Research Associate. Institute for Behavioral Genetics, University of Colorado Boulder. Advisors: Naomi Friedman, Scott Vrieze |

2010 – 2016 **Graduate Research Assistant and Teaching Assistant.** Department of Psychology & Neuroscience and Institute for Behavioral Genetics, University of Colorado Boulder. Advisors: Akira Miyake, Naomi Friedman

2009 – 2010 **Undergraduate Research Assistant and Teaching Assistant.** Department of Psychology & Neuroscience, University of Colorado Boulder. Advisor: Akira Miyake

PUBLICATIONS

Peer-Refereed Journal Articles:

2020

31. **Gustavson, D. E.**, Elman, J. A., Sanderson-Cimino, M., Franz, C. E., Panizzon, M. S., Jak, A. J., Reynolds, C. A., Neale, M. C., Lyons, M. J., & Kremen, W. S. (*in press*). Extensive memory testing improves prediction of progression to MCI in late middle age. *Alzheimer's & Dementia: Diagnosis, Assessment, & Disease Monitoring*, NIHMSID: NIHMS1058323
30. Elman, J. A., Panizzon, M. S., **Gustavson, D. E.**, Franz, C. E., Sanderson, M. E., Lyons, M. J., & Kremen, W. S. (*in press*). A β -positivity predicts cognitive decline but cognition predicts progression to A β -positivity. *Biological Psychiatry*.
<https://www.biorxiv.org/content/10.1101/523787v2.abstract> (preprint).
29. Friedman, N. P., Hatoum, A. S., **Gustavson, D. E.**, Corley, R. P., Hewitt, J. K., & Young, S. E. (*in press*). Executive functions and impulsivity are genetically distinct and independently predict psychopathology: Results from two adult twin studies. *Clinical Psychological Science, advanced online publication*
28. Kremen, W. S., Panizzon, M. S., Elman, J. A., Andreassen, O. A., Dale, A. M., Gillespie, N. A., **Gustavson, D. E.**, Logue, M. W., Lyons, M. J., Neale, M. C., Reynolds, C. A., Whitsel, N., & Franz, C. E. (2019). Pupillary dilation responses as a midlife indicator of risk for Alzheimer's disease: Association with Alzheimer's disease polygenic risk. *Neurobiology of Aging, advance online publication*.
<https://doi.org/10.1016/j.neurobiolaging.2019.09.001>

2019

27. **Gustavson, D. E.**, Franz, C. E., Panizzon, M. S., Lyons, M. J., & Kremen, W. S. (2019). Internalizing and externalizing psychopathology in middle age: Genetic and environmental architecture and stability of symptoms over 15 to 20 years. *Psychological*

26. **Gustavson, D. E.**, Lurquin, J. H, Michaelson, L. E., Barker, J. E., Carruth, N. P., von Bastian, C. C., & Miyake, A. (2019). Lower general executive function is primarily associated with trait worry: A latent variable analysis of negative thought/affect measures. *Emotion*, advance online publication. <http://dx.doi.org/10.1037/emo0000584> PMCID: PMC6713624
25. **Gustavson, D. E.**, Panizzon, M. S., Franz, C. E., Reynolds, C. A., Corley, R. P., Hewitt, J. K., Lyons, M. J., Kremen, W. S., & Friedman, N. P. (2019). Integrating verbal fluency with executive functions: Evidence from twin studies in adolescence and middle age. *Journal of Experimental Psychology: General*, 148, 2104-2119. <http://dx.doi.org/10.1037/xge0000589> PMCID: PMC6754807
24. **Gustavson, D. E.**, Franz, C. E., Kremen, W. S., Carver, C. S., Corley, R. P., Hewitt, J. K. & Friedman, N. P. (2019). Common genetic influences on impulsivity facets are related to goal management, psychopathology, and personality. *Journal of Research in Personality*, 79, 161-175. <https://doi.org/10.1016/j.jrp.2019.03.009> PMCID: PMC6857631
23. **Gustavson, D. E.**, Franz, C. E., Panizzon, M. S., Reynolds, C. A., Xian, H., Toomey, R., Lyons, M. J., & Kremen, W. S. (2019). Genetic and environmental associations between executive functions, trait anxiety, and depression symptoms in middle age. *Clinical Psychological Science*, 7, 127-142. <https://doi.org/10.1177/2167702618805075>. PMCID: PMC6433407.
22. **Gustavson, D. E.**, Hatton, S. N., Elman, J. A., Panizzon, M. S., Franz, C. E., Hagler, D. J., Fennema-Notestine, C., Eyler, L., McEvoy, L., Neale, M. C., Gillespie, N., Dale, A. M., Lyons, M. J., & Kremen, W. S. (2019). Predominantly global genetic influences on individual white matter tract microstructure. *Neuroimage*, 184, 871-880. <http://doi.org/10.1016/j.neuroimage.2018.10.016>. PMCID: PMC6289256
21. Elman, J. A., Panizzon, M. S., Logue, M. W., Gillespie, N. A., Neale, M. C., Reynolds, C. A., **Gustavson, D. E.**, Rana, B. K., Andreassen, O. A., Dale, A. M., Franz, C. E., Lyons, M. J., & Kremen, W. S. (2019). Genetic risk for coronary heart disease alters the influence of Alzheimer's genetic risk on mild cognitive impairment, *Neurobiology of Aging*, 237.e5-237.e12. <https://doi.org/10.1016/j.neurobiolaging.2019.06.001>. PMCID: PMC6899214.
20. Eyler, T. L., Elman, J. A., Hatton, S. N., Gough, S., Mischel, A. K., Hagler, D., J., Franz, C. E., Docherty, A., Fennema-Notestine, C., Gillespie, N., **Gustavson, D. E.**, Lyons, M. J., Neale, M. C., Panizzon, M. S., Dale, A. M., Kremen, W. S (2019). Resting state abnormalities of the default mode network in mild cognitive impairment: A systematic review and meta-analysis. *Journal of Alzheimer's Disease*, 70, 107-120 <http://doi.org/10.3233/JAD-180847>. PMCID: PMC6697380.

19. Kremen, W. S., Beck, A., Elman, J. A., **Gustavson, D. E.**, Tu, X. M., Sanderson-Cimino, M. E., Panizzon, M. S., Vuoksimaa, E., Toomey, R., Fennema-Notestine, C., Hagler, D. J., Dale, A. M., Lyons, M. J., & Franz, C. E. (2019). Influence of young adult cognitive ability and additional education on later life cognition. *Proceeding of the National Academy of Sciences*, 116, 2021-2026. <https://doi.org/10.1073/pnas.1811537116>. PMID: PMC6369818
18. Logue, M. W., Panizzon, M. S., Elman, J. A., Gillespie, N. A., Hatton, S., **Gustavson, D. E.**, Andreassen, O. A., Dale, A. M., Franz, C. E., Lyons, M. J., Neale, M. C., Reynolds, C. A., Tu, X., & Kremen, W. S. (2019). Use of an Alzheimer's disease polygenic risk score to identify mild cognitive impairment in adults in their 50s. *Molecular Psychiatry*, 24, 421-430. <http://dx.doi.org/10.1038/s41380-018-0030-8>. PMID: PMC6110977
17. Sanderson-Cimino, M., Panizzon, M. S., Elman, J. A., **Gustavson, D. E.**, Franz, C. E., Reynolds, C. A., Toomey, R., Lyons, M. J., & Kremen, W. S. (2019). Genetic and environmental architecture of processing speed across midlife. *Neuropsychology*, 33, 862-871. <http://dx.doi.org/10.1037/neu0000551>. PMID: PMC6710143
16. Franz, C. E., Hatton, S. N., Hauger, R. L., Kredlow, M. A., Eyler, L., McEvoy, L. K., Fennema-Notestine, C., Hagler, D. J., Jacobson, K. C., McKenzie, R. E., Panizzon, M. S., **Gustavson, D. E.**, Xian, H., Toomey, R., Beck, A., Stevens, S., Tu, X., Lyons, M. L., & Kremen, W. S. (2019). Posttraumatic stress symptom persistence across 24 years: Association with brain structures. *Brain Imaging and Behavior*, advance online publication. <https://doi.org/10.1007/s11682-019-00059-x>. PMID: PMC6722032

2018

15. **Gustavson, D. E.**, Panizzon, M. S., Elman, J. A., Franz, C. E., Beck, A., Reynolds, C. A., Jacobson, K. C., Xian, H., Toomey, R., Lyons, M. J., & Kremen, W. S. (2018). Genetic and environmental influences on verbal fluency in middle age: A longitudinal twin study. *Behavior Genetics*, 48, 361-373. <http://dx.doi.org/10.1007/s10519-018-9910-6>. PMID: PMC29922985
14. **Gustavson, D. E.**, du Pont, A., Whisman, M. A., & Miyake, A. (2018). Evidence for transdiagnostic repetitive negative thinking and its association with rumination, worry, and depression and anxiety symptoms: A commonality analysis. *Collabra*, 4, 1-18. <http://dx.doi.org/10.1525/collabra.128>. PMID: PMC6370308.
13. **Gustavson, D. E.**, Panizzon, M. S., Elman, J. A., Franz, C. E., Reynolds, C. A., Jacobson, K. C., Friedman, N. P., Xian, H., Lyons, M. J., & Kremen, W. S. (2018). Stability of genetic and environmental influences on executive functions in midlife. *Psychology and Aging*, 33, 219-231. <http://dx.doi.org/10.1037/pag0000230> PMID: PMC5905725.
12. **Gustavson, D. E.**, Panizzon, M. S., Franz, C. E., Friedman, N. P., Reynolds, C. A., Jacobson, K. C., Xian, H., Lyons, M. J., & Kremen, W. S. (2018). Genetic and environmental

architecture of executive functions in midlife, *Neuropsychology*, 32, 18-30.
<http://dx.doi.org/10.1037/neu0000389> PMCID: PMC5814340.

11. Davies, G., Lam, M., Harris, S. E., ... **Gustavson, D. E.**, ... Lencz, T., & Deary, I. J. (2018). Study of 300,486 individuals identified 148 independent genetic loci influencing general cognitive function. *Nature Communications*, 9, 1-16. <http://dx.doi.org/10.1038/s41467-018-04362-x> PMCID: PMC5974083.
10. Reineberg, A. D., **Gustavson, D. E.**, Benca, C., Banich, M. T., & Friedman, N. P. (2018). The relationship between resting state network connectivity and individual differences in executive functions. *Frontiers in Psychology*, 9, 1600.
<http://dx.doi.org/10.3389/fpsyg.2018.01600>. PMCID: PMC6134071.
9. Elman, J. A, Jak, A. J., Panizzon, M. S., Tu, X., Chen, T., Reynolds, C. A., **Gustavson, D. E.**, Franz, C. E., Hatton, S. N., Jacobson, K. C., Toomey, R., McKenzie, R., Xian, H., Lyons, M. J., & Kremen, W. S. (2018). Underdiagnosis of mild cognitive impairment: A consequence of ignoring practice effects. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 10, 372-381.
<http://dx.doi.org/10.1016/j.dadm.2018.04.003> PMCID: PMC6039708.

2017

8. **Gustavson, D. E.**, du Pont, A., Hatoum, A. S., Rhee, S. H., Kremen, W. S., Hewitt, J. K., & Friedman, N. P. (2017). Genetic and environmental associations between procrastination and internalizing/externalizing psychopathology, *Clinical Psychological Science*, 5, 798-815. <http://dx.doi.org/10.1177/2167702617706084> PMCID: PMC5831260.
7. **Gustavson, D. E.**, Stallings, M. C., Corley, R. P., Miyake, A., Hewitt, J. K., & Friedman, N. P. (2017). Executive functions and substance use: Relations in late adolescence and early adulthood. *Journal of Abnormal Psychology*, 126, 257-270.
<http://dx.doi.org/10.1037/abn0000250>. PMCID: PMC5305429.
6. **Gustavson, D. E.**, & Miyake, A. (2017). Academic procrastination and goal accomplishment: A combined experimental and individual differences investigation. *Learning and Individual Differences*, 54, 160-172. <http://dx.doi.org/10.1016/j.lindif.2017.01.010>. PMCID: PMC5608091.
5. **Gustavson, D. E.**, Altamirano, L., Johnson, D., Miyake, A., & Whisman, M. A. (2017) Is set shifting really impaired in trait anxiety? Only when switching away from an effortfully established task set. *Emotion*, 17, 88-101.
<http://dx.doi.org/10.1037/emo0000212>. PMCID: PMC5243939.

2016

4. **Gustavson, D. E.,** & Miyake, A. (2016). Trait worry is associated with difficulties in working memory updating. *Cognition and Emotion*, 30, 1289-1303.
<http://dx.doi.org/10.1080/02699931.2015.1060194>. PMCID: PMC6118341.
3. Lurquin, J. H., Michaelson, L. E., Barker, J. E., **Gustavson, D. E.,** von Bastian, C. C., Carruth, N. P., & Miyake, A. (2016). No evidence of the ego-depletion effect across task characteristics and individual differences: A pre-registered study. *PloS one*, 11, e0147770. <http://dx.doi.org/10.1371/journal.pone.0147770>. PMCID: PMC4749338.

2015

2. **Gustavson, D. E.,** Miyake, A., Hewitt, J. K., & Friedman, N. P. (2015). Understanding the cognitive and genetic underpinnings of procrastination: Evidence for shared genetic influences with goal management and executive function abilities. *Journal of Experimental Psychology: General*, 144, 1063-1079.
<http://dx.doi.org/10.1037/xge0000110>. PMCID: PMC4658242.

2014

1. **Gustavson, D. E.,** Miyake, A., Hewitt, J. K., & Friedman, N. P. (2014). Genetic relations among procrastination, impulsivity, and goal-management ability: Implications for the evolutionary origin of procrastination. *Psychological Science*, 25, 1178-1188.
<http://dx.doi.org/10.1177/0956797614526260>. PMCID: PMC4185275.

Publications Under Review:

- Gustavson, D. E.,** Elman, J. A., Panizzon, M. S., Franz, C. E., Zuber, J., Reynolds, C. A., Jacobson, K. C., Xian, H., Toomey, R., Lyons, M. J., & Kremen, W. S. (*revise and resubmit*). Semantic verbal fluency predicts changes in episodic memory and transition to mild cognitive impairment six years later.
<https://www.biorxiv.org/content/10.1101/659417v1>
- Gustavson, D. E.,** Friedman, N. P., Fontanillas, P., Elson, S. L., 23andMe Research Team, Palmer, A., & Sanchez-Roige, S. (*under review*). The latent genetic structure of impulsivity and its relation to internalizing psychopathology. *Psychological Science*
<https://www.biorxiv.org/content/10.1101/2020.01.07.897231v1>
- Gustavson, D. E.,** Panizzon, M. S., Kremen, W. S., Reynolds, C. A., Nygaard, M., Wod, M., Catts, V. S., Lee, T., Gatz, M., & Franz, C. E. (*under review*). Genetic and environmental influences on semantic verbal fluency across midlife and later life. *Behavior Genetics*.
- Beck, A., Stevens, S., **Gustavson, D. E.,** Lyons, M. J., Elman, J. A., Kremen, W. S. & Franz, C. E. (*under review*). Early adult urbanicity, childhood socioeconomic status, and cognitive ability four decades later. *American Journal of Epidemiology*

Slayday, R., **Gustavson, D. E.**, Elman, J. A., Beck, A., McEvoy, L., Tu, X., Fang, B., Hauger, R., Lyons, M., McKenzie, R., Sanderson-Cimino, M., Xian, H., Kremen, W. S., & Franz, C. E. (*revise and resubmit*). Interaction between alcohol consumption and apolipoprotein E (ApoE) genotype with cognition in middle-age men. *Journal of the International Neuropsychological Society*.

Walters, C. E., Nitin, R., Margulis, K., Boorom, O., **Gustavson, D. E.**, Bush, C. T., Davis, L. K., Below, J. E., Cox, N. J., Camarata, S. M., Gordon, R. L. (*under review*). APT-DLD: A new phenotyping algorithm for identifying cases of developmental language disorder in large-scale electronic health record systems.

Sanderson-Cimino, M., Panizzon, M. S., Elman, J. A., Tu, X., **Gustavson, D. E.**, Cross, K., Notestine, R., Hatton, S. N., Eyler, L. T., McEvoy, L. K., Hagler, D. J., Neale, M. C., Lyons, M. J., Franz, C. E., Fennema-Notestine, C., & Kremen, W. S. (*under review*). The relationship between abnormal white matter and cognitive performance during midlife.

Xian, H., Boutwell, B., Reynolds, C. A., Lew, D., Logue, M., **Gustavson, D. E.**, Kavish, N., Panizzon, M. S., Tu, X., Toomey, R., Puckett, O., Elman, J. A., Jacobson, K. C., Lyons, M. J., Kremen, W. S., & Franz, C. E. (*under review*). Genetic underpinnings of increased BMI and its association with late midlife cognitive abilities.

Selected Publications in Preparation:

Gustavson, D. E., Panizzon, M. S., Franz, C. E., Reynolds, C. A., Jacobson, K. C., Xian, H., Lyons, M. J. & Kremen, W. S. (*in preparation*). Executive functions and impulsivity differentially predict subjective cognitive decline in late middle age.

Gustavson, D. E., Kane, M., Carruth, N., Miyake, A. (*in preparation*). Evaluating an objective measure of academic procrastination using submission times in learning management systems.

Ketels, S. L., & **Gustavson, D. E.** (*in preparation*). Why not just ask them? Procrastination behaviors predict grades better than self-report.

Vojinovic, D., Hayward, C., Smith, J. A., Zhao, W., ... **Gustavson, D. E.**, ... Debette, S., J., Jukema, W., & Mosley, T. H. (*in preparation*). Genetic determinants of general cognitive function and their association to circulating metabolites: A cross-omics study.

AWARDS AND HONORS

2016 Dossier/Muenzinger Award for Basic Research: Department of Psychology & Neuroscience, University of Colorado Boulder

- 2014 The Lindon Eaves Award for Best Student Poster (Presented at the International Workshop on Statistical Genetic Methods for Human Complex Traits)
- 2010 Summa Cum Laude Honors, B.A. in Psychology, University of Colorado Boulder

GRANTS AND FELLOWSHIPS

- 2018-2019 *SES Health Gradients in Late Life: Testing Models of Gene-Environment Interplay in an International Twin Consortium* (R01 AG059329). University of California, San Diego. Role: Co-investigator
- 2016 Behavioral Genetics Association International Travel Award. \$500
- 2015 Behavioral Genetics Association Travel Award. \$100 + Conference Registration.
- 2015 Department of Psychology and Neuroscience Graduate Student Travel/Conference Grant (University of Colorado Boulder). \$400
- 2013 Department of Psychology and Neuroscience Graduate Student Travel/Conference Grant (University of Colorado Boulder). \$400
- 2012 Department of Psychology and Neuroscience Graduate Student Travel/Conference Grant (University of Colorado Boulder). \$400
- 2010 Undergraduate Research Opportunity Fund, University of Colorado Boulder. \$2400

PRESENTATIONS

Session chair

- 2019 *Neuropsychology: Novel Methods for Detecting Cognitive Change* (July 2019). Alzheimer's Association International Conference, Los Angeles, CA.

Papers presented at conferences

- 2019 **Gustavson, D. E.**, Panizzon, M. S., Elman, J., Franz, C. E., Jak, A. J., Sanderson-Cimino, M., Toomey, R., Lyons, M. J., & Kremen, W. S. (July 2019) Multiple memory tests substantially improve longitudinal prediction of progression to mild cognitive impairment. Talk presented at the Alzheimer's Association International Conference, Los Angeles, CA.
- 2019 **Gustavson, D. E.**, Franz, C. E., Panizzon, M. S., Elman, J., Jak, A. J., Sanderson-Cimino, M., Toomey, R., Lyons, M. J., & Kremen, W. S. (July 2019) Executive

functions and impulsivity predict perception of cognitive decline six years later. Poster presented at the Alzheimer's Association International Conference, Los Angeles, CA.

- 2019 **Gustavson, D. E.**, Franz, C. E., Panizzon, M. S., Lyons, M. J., & Kremen, W. S. (June 2019) Internalizing and Externalizing Psychopathology in Middle Age: Genetic and Environmental Architecture and Stability of Symptoms Over 15 to 20 Years. Talk to be presented at the 49th annual meeting of the Behavior Genetics Association, Stockholm, Sweden.
- 2019 **Gustavson, D. E.**, Elman, J., Panizzon, M. S., Franz, C. E., Reynolds, C. A., Jacobson, K., Zuber, J., Sanderson-Cimino, M., Xian, H., Toomey, R., Lyons, M. J., & Kremen, W. S. (February 2019) Episodic memory and semantic fluency predict 6-year progression to MCI in cognitively normal middle-aged adults. Talk presented at the International Neuropsychological Association, New York, NY.
- 2018 **Gustavson, D. E.**, Franz, C. E., Kremen, W. S., Corley, R. P., Hewitt, J. K., & Friedman, N. P. (October 2018). Common genetic influences on impulsivity facets are related to goal management, psychopathology, and personality. Talk and poster to be presented at the Integrating Genetics and the Social Sciences Conference, Boulder, CO.
- 2018 **Gustavson, D. E.**, Panizzon, M. S., Elman, J. A., Franz, C. E., Reynolds, C. A., Jacobson, K. P., Xian, H., Toomey, R., Lyons, M. J., and Kremen, W. S. (June 2018). Genetic and environmental influences on verbal fluency: A new framework. Talk presented at the 48th annual meeting of the Behavior Genetics Association, Boston, MA.
- 2018 **Gustavson, D. E.**, Panizzon, M. S., Elman, J. A., Franz, C. E., Reynolds, C. A., Jacobson, K. P., Xian, H., Toomey, R., Lyons, M. J., and Kremen, W. S. (May 2018). Genetic and environmental influences on verbal fluency: A new framework. Poster presented at the Cognitive Aging Conference, Atlanta, GA and at the 13th Annual Lewis L. Judd Young Investigators Symposium at the University of California, San Diego (April 2018).
- 2017 **Gustavson, D. E.**, & Miyake, A. (July 2017). Genetic influences on procrastination underlie its correlations with personality, cognition, and psychopathology. Talk presented at the 10th Biennial Procrastination Research Conference, Chicago, IL.
- 2017 Miyake, A., Carruth, N. P., Lurquin, J. H., **Gustavson, D. E.**, & Kane, M. J. (July 2017) Assignment submission times as objective measures of individual differences in academic procrastination: A classroom study (July 2017). Talk presented by A. Miyake at the 10th Biennial Procrastination Research Conference, Chicago, IL.

- 2017 Carruth, N. P., **Gustavson, D. E.**, Lurquin, J. H., Kane, M. J., & Miyake, A. (July 2017). Identifying the key malleable predictors of academic procrastination through a semester-long, classroom-based study. Poster presented by N. Carruth at the 10th Biennial Procrastination Research Conference, Chicago, IL.
- 2017 **Gustavson, D. E.**, Panizzon, M. S., Franz, C. E., Friedman, N. P., Reynolds, C. A., Jacobson, K. J., Xian, H., Lyons, M. J., & Kremen, W. S. (June 2017). Genetic/environmental architecture and stability of executive functions in midlife. Talk presented at the 47th annual meeting of the Behavior Genetics Association, Oslo, Norway.
- 2017 Kremen, W., Logue, M., Panizzon, M., Elman, J., Gillespie, N., Hatton, S., **Gustavson, D.**, Andreassen, O., Dale, A., Lyons, M., Neale, M., Reynolds, C., & Franz, C (June 2017). Alzheimer's disease polygenetic risk score identified mild cognitive impairment in adults in their 50s. Talk presented by W. Kremen at the 47th annual meeting of the Behavior Genetics Association, Oslo, Norway.
- 2016 **Gustavson, D. E.**, du Pont, A., Rhee, S. H., Corley, R. P., Hewitt, J. K., & Friedman, N. P. (June 2016). Genetic and environmental associations between procrastination and internalizing/externalizing problems. *Behavior Genetics*, 46, 785-785. Talk presented at the 46th annual meeting of the Behavior Genetics Association, Brisbane, Australia.
- 2016 Hatoum, A., **Gustavson, D. E.**, Rhee, S. H., Corley, R. P., Hewitt, J. K., & Friedman, N. P. (June 2016). Do executive functioning and impulsivity predict overlapping variation in problem behaviors? *Behavior Genetics*, 46, 787-787. Talk presented by A. Hatoum at the 46th annual meeting of the Behavior Genetics Association, Brisbane, Australia.
- 2016 **Gustavson, D. E.** Executive dysfunction in trait anxiety (April, 2016). Talk presented at the 86th annual meeting of the Rocky Mountain Psychological Association, Denver, CO.
- 2016 Hampton, L. E., Lurquin, J. H., **Gustavson, D. E.**, & Carruth, N. C. (April, 2016). Forgiving the self and others: Exploring component level differences and the effects of personality. Talk presented by L. E. Hampton at the 86th annual meeting of the Rocky Mountain Psychological Association, Denver, CO. *Winner of RMPA Student Research Award.*
- 2015 **Gustavson, D. E.**, Lurquin, J. H., Michaelson, L. E., Barker, J. E., Carruth, N. P., von Bastian, C., & Miyake, A. (November, 2015). Executive dysfunction in trait anxiety. Poster presented at the Psychonomic Society Annual Scientific Meeting, Chicago, IL.
- 2015 **Gustavson, D. E.**, Miyake, A., Hewitt, J. K., & Friedman, N. P. (June, 2015). Understanding the cognitive and genetic underpinnings of procrastination:

- Evidence for shared genetic influences with goal management and executive function abilities. *Behavior Genetics*, 45, 659-660. Talk presented at the 45th annual meeting of the Behavior Genetics Association, San Diego, CA.
- 2015 Friedman, N. P., **Gustavson**, D. E., Corley, R. P., Stallings, M. C., & Hewitt, J. K. (June, 2015). Stability and change in the relations among executive functions and substance use and dependence from late adolescence to early adulthood. *Behavior Genetics*, 45, 656. Talk presented by N. P. Friedman at the 45th annual meeting of the Behavior Genetics Association, San Diego, CA.
- 2014 **Gustavson**, D. E., Miyake, A., Hewitt, J. K., & Friedman, N. P. (June, 2014). Genetic relations among procrastination, impulsivity, and goal-management ability. *Behavior Genetics*, 44, 661. Talk presented at the 44th annual meeting of the Behavior Genetics Association, Charlottesville, VA.
- 2014 **Gustavson**, D. E., Miyake, A., Hewitt, J. K., & Friedman, N. P. (March, 2014). Genetic relations among procrastination, impulsivity, and goal-management ability: Implication for the evolutionary origin of procrastination. Poster presented at the 2014 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, CO. *Winner of Lindon Eaves Award for Best Poster*.
- 2013 **Gustavson**, D. E., Wagenknecht, L. E., Miyake, A. (January, 2013). The effects of religious fundamentalist values and self-affirmation on the expression of implicit gender bias. Poster presented at the Society for Personality and Social Psychology Annual Conference, New Orleans, LA.
- 2012 **Gustavson**, D. E., & Miyake, A. (November, 2012). Trait worry is associated with deletion difficulty but not storage capacity. Poster presented at the Psychonomic Society Annual Scientific Meeting, Minneapolis, MN.
- 2012 **Gustavson**, D. E., Miyake, A., Altamirano, L. J., Haynes, N. S., & Ito, T. (January, 2012). The contribution of executive-control to the manifestation of implicit racial bias: A dual-task investigation. Poster presented at the Society for Personality and Social Psychology Annual Meeting, San Diego, CA.
- 2012 **Gustavson**, D. E., & Miyake, A. (January, 2012). Anxiety and updating: Trait worry is related to selection difficulty during deletion. Poster presented at the Determinants of Executive Function and Dysfunction Annual Meeting, Boulder, CO.
- 2011 **Gustavson**, D. E. & Miyake, A. (November, 2011). Anxiety and updating: Trait worry is related to selection difficulty during deletion. Poster presented at the Psychonomic Society Annual Scientific Meeting, Seattle, WA.

WORKSHOPS

- 2019 International Workshop on Statistical Genetic Methods for Human Complex Traits (Advanced Workshop), Boulder, CO. March 2019.
- 2018 Statistical Horizons Longitudinal Analyses using Structural Equation Modeling Workshop, Los Angeles, CA. May 2018.
- 2017 International Workshop on Statistical Genetic Methods for Human Complex Traits (Advanced Workshop), Boulder, CO. March 2017.
- 2015 International Workshop on Statistical Genetic Methods for Human Complex Traits (Advanced Workshop), Boulder, CO. March 2015
- 2014 International Workshop on Statistical Genetic Methods for Human Complex Traits (Introductory Workshop), Boulder, CO. March 2014

TEACHING EXPERIENCE

- 2017-2018 Lectures: University of California, San Diego. September 2017, July 2018, August 2018, October 2018. Various undergraduate and graduate-level courses.
- 2016-2018 Mentored 2 minority undergraduate students on research projects as part of the Advancing Diversity in Aging Research program through the University of California, San Diego and San Diego State University
- 2010-2016 Led weekly educational lab meetings (10-20 students per semester) through cognitive psychology lab of Dr. Akira Miyake. Course: Independent Study (PSYC 2841/4841). Department of Psychology & Neuroscience, University of Colorado Boulder.
- 2010-2016 Co-supervised 6 Honors Thesis Projects in the Department of Psychology & Neuroscience, University of Colorado Boulder
- 2010-2014 Teaching Assistant: Department of Psychology & Neuroscience, University of Colorado Boulder.
- 2009 Undergraduate teaching Assistant: Department of Psychology & Neuroscience, University of Colorado Boulder.

Courses/Lectures Taught:

Introduction to Psychology
Introduction to Social Psychology
Statistics and Research Methods
Advanced Cognitive Psychology

Genetics
Executive Functions

RESEARCH EXPERIENCE

- 2018-2019 **Co-investigator:** *SES Health Gradients in Late Life: Testing Models of Gene-Environment Interplay in an International Twin Consortium* (R01 AG059329). University of California, San Diego.
- 2017-2018 **Postdoctoral Researcher:** *Gene-Environment Interplay of Social Contexts and Aging-Related Outcomes* (R01 AG050595). University of California, San Diego subaward
- 2016-present **Postdoctoral Researcher:** *The VETSA Longitudinal Twin Study of Cognition and Aging* (R01 AG050595). University of California, San Diego.
- 2016 **Postdoctoral Researcher:** *Neural substrates of executive function: An fMRI twin study* (R01 MH062307). University of Colorado Boulder.
- 2014-2016 **Graduate Research Assistant:** National Institute for Mental Health Pre-Doctoral Training Grant: *Research Training: Mental Health Behavior Genetics* (T32 MH016880). University of Colorado Boulder.
- 2010-2013 **Graduate Research Assistant:** *Individual Differences in Executive Functions and Expressions of Racial Biases*, National Science Foundation (BCS 0847872).

SERVICE TO PROFESSION

Served as Peer Reviewer for the Following Journals

Behavior Genetics
Contemporary Educational Psychology
Developmental Psychology
Early Childhood Development and Care
Eurasian Journal of Educational Research
European Journal of Personality
Evolutionary Psychology
Frontiers in Psychology
Health Psychology Research
Intelligence
International Journal of Geriatric Psychiatry
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Human Perception and Performance
Journal of Learning and Instruction
Language Learning and Development
Learning and Individual Differences

Motivation and Emotion
Neuroscience
Open Journal of Medical Psychology
PLOS One
Psychiatry Research
Psychophysiology

Served as Editor for Journal Articles

PLOS One (guest editor)

Served as Peer Reviewer for Grant Review

National Science Center, Poland

DEPARTMENTAL/UNIVERSITY SERVICE

- 2016-2018 Mentored 2 minority undergraduate students on research projects as part of the Advancing Diversity in Aging Research program through the University of California, San Diego and San Diego State University
- 2014-2015 United Government of Graduate Students (CU Boulder): Vice President of Finance & Communications Chair.
- 2010-2016 Co-supervised 6 Honors Thesis Projects in the Department of Psychology & Neuroscience, University of Colorado Boulder

PROFESSIONAL MEMBERSHIPS

- 2016-Present Behavior Genetics Association
- 2018-Present International Neuropsychological Association
- 2019-Present Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment

REFERENCES

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