

# Alex Kale

## Curriculum Vitae

Research on data visualization, uncertainty communication, visual and statistical reasoning, and HCI.  
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## Education

2017 - present      **University of Washington, PhD Student in Information Science**  
Advisor: Jessica Hullman - [jhullman@northwestern.edu](mailto:jhullman@northwestern.edu)  
2011 - 2015      University of Washington, Magna Cum Laude (GPA: 3.95)  
B.S. in Psychology with Honors; Minors in Music and Philosophy  
Advisor: Steve Buck - [sbuck@uw.edu](mailto:sbuck@uw.edu)  
2007 - 2011      Pullman High School, Valedictorian (GPA: 4.0)

## Publications

- Kale, A.**, Hullman, J. (2019). Adaptation and Learning Priors in Visual Inference, Position Paper. *VisxVision Workshop at IEEE VIS 2019*.
- Kale, A.**, Kay, M., Hullman, J. (2019). Decision-Making Under Uncertainty in Research Synthesis: Designing for the Garden of Forking Paths. *ACM Conference on Human Factors in Computing Systems (Proc. CHI)*. doi: 10.1145/3290605.3300432
- Conlen, M., **Kale, A.**, Heer, J. (2019). Capture & Analysis of Active Reading Behaviors for Interactive Articles on the Web. *Eurographics Conference on Visualization (EuroVis)*, 38 (3). <http://idl.cs.washington.edu/papers/idyll-analytics>
- Kale, A.**, Nguyen, F., Kay, M., Hullman, J. (2019). Hypothetical Outcome Plots Help Untrained Observers Judge Trends in Ambiguous Data. *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 25 (1). doi: 10.1109/TVCG.2018.2864909
- Hullman, J., Qiao, X., Correll, M., **Kale, A.**, Kay M. (2019). In Pursuit of Error: A Survey of Uncertainty Visualization Evaluation. *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 25 (1). P 903-913. doi: 10.1109/TVCG.2018.2864889
- Schallmo, M-P., Millin, R., **Kale, A.M.**, Kolodny, T., Edden, R.A.E., Bernier, R.A., Murray, S.O. (2019). Glutamatergic facilitation of neural responses in MT enhances motion perception in humans. *NeuroImage*, 184. P 925-931. doi: 10.1101/283994
- Millin, R., Kolodny, T., Flevaris, A.V., **Kale, A.M.**, Schallmo, M-P, Gerdts, J., Bernier, R.A., Murray, S. (2018). Reduced auditory cortical adaptation in autism spectrum disorder. *eLife Neuroscience*. doi: 10.7554/eLife.36493
- Murray, S.O., Schallmo, M-P, Kolodny, T., Millin, R., **Kale, A.M.**, Thomas, P., Rammsayer, T.H., Troche, S.J., Bernier, R.A., Tadin, D. (2018). Sex Differences in Visual Motion Processing. *Current Biology*, 28 (17). P 2794-2799. doi: 10.1016/j.cub.2018.06.014
- Schallmo, MP., **Kale, A.M.**, Millin, R., Flevaris, A.V., Brkanac, Z., Edden, R.A.E., Bernier, R.A., & Murray, S.O. (2018). Suppression and facilitation of human neural responses. *eLife Neuroscience*. doi: 10.7554/eLife.30334
- Vincent, J., **Kale, A.**, & Buck, S. (2016). Luminance dependent long-term chromatic adaptation. *Journal of the Optical Society of America A*, 33(3), A164-A169. doi: 10.1364/JOSAA.33.00A164

## **Honors and Awards**

2018	NFS Graduate Research Fellowship Program, Honorable Mention
2017	Top Scholar Award, UW Graduate School
2015	Dean's Medal Nominee
2015	Gonfalonier (banner carrier at UW Commencement)
2014 - present	Phi Beta Kappa
2014	Guthrie Prize for Meritorious Undergraduate Writing in Psychology (UW)
2011-2015	Dean's List, University of Washington (every quarter of undergraduate)

## **Experience**

2017 - present	Research Assistant, University of Washington MU Collective & Interactive Data Lab Supervisor: Jessica Hullman - <a href="mailto:jhullman@northwestern.edu">jhullman@northwestern.edu</a>
2015 - 2017	Research Assistant, University of Washington Vision-Cognition Lab Supervisor: Scott Murray - <a href="mailto:somurray@uw.edu">somurray@uw.edu</a>

References, teaching experience, speaking engagements, and skill list available upon request.