

# Alex Kale

## Curriculum Vitae

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

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## Education

2017 - present	<b>University of Washington, PhD Candidate in Information Science</b> Advisor: Jessica Hullman - <a href="mailto:jhullman@northwestern.edu">jhullman@northwestern.edu</a>
2017 - 2020	University of Washington M.S. in Information Science
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 - <a href="mailto:sbuck@uw.edu">sbuck@uw.edu</a>
2007 - 2011	Pullman High School, Valedictorian (GPA: 4.0)

## Publications

- Kale, A.**, Wu, Y., Hullman, J. (2021). Causal Support: Modeling Causal Inferences with Visualizations. *IEEE Trans. Visualization & Comp. Graphics (Proc. VIS)*, 28 (1). doi: xx.xxxx/TVCG.201x.xxxxxxx
- Kale, A.**, Kay, M., Hullman, J. (2020). Visual Reasoning Strategies for Effect Size Judgments and Decisions. *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 27 (1). doi: xx.xxxx/TVCG.201x.xxxxxxx
- Schallmo M.P., Kolodny T., **Kale A.M.**, Millin R., Flevaris A.V., Edden R.A.E., Gerdts J., Bernier R.A., Murray S.O. (2020). Weaker neural suppression in autism. *Nat Commun*, 11(1), 2675.
- 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., **Kale A.M.**, Murray S.O. (2019). The time course of different surround suppression mechanisms. *J Vis*, 19(4), 12.
- 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

2021	Honorable Mention Paper Award, IEEE VIS conference
2020	InfoVis Best Paper Award, IEEE VIS conference
2018	NSF Graduate Research Fellowship Program Honorable Mention
2017	Top Scholar Award, UW Graduate School
2015	Dean's Medal Nominee, UW
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, UW (every quarter of undergraduate)

## Experience

Summer 2021	Research Intern, Microsoft Research Interpret ML team Supervisor: Rich Caruana - rcaruana@microsoft.com
2020 - present	Visiting Scholar, Northwestern University MU Collective Supervisor: Jessica Hullman - jhullman@northwestern.edu
2017 - present	Research Assistant, University of Washington MU Collective & Interactive Data Lab Supervisor: Jessica Hullman - jhullman@northwestern.edu
2015 - 2017	Research Assistant, University of Washington Vision-Cognition Lab Supervisor: Scott Murray - somurray@uw.edu

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