

# Stefan Uddenberg

## Academic Appointments

- 2020– **University of Chicago Booth School of Business – Principal Researcher.**  
Developing hyper-realistic generative models of social perception | *Advisor: Alex Todorov*
- 2018–2020 **Princeton University – Postdoctoral Fellow, Princeton Neuroscience Institute.**  
*Advisor: Alex Todorov*

## Education

- 2013–2018 **Yale University – Ph.D. in Cognitive Psychology, New Haven, CT.**  
M.Phil. (2016) & M.S. (2015) in Cognitive Psychology | *Advisor: Brian Scholl*
- 2007–2011 **Dartmouth College – B.A. in Cognitive Science & Japanese Studies, Hanover, NH.**  
Magna Cum Laude | Phi Beta Kappa

## Research Grants

- 2019–2021 **Innovation Fund for New Ideas in the Natural Sciences,**  
*Princeton University, Office of the Dean for Research (\$199,422).*  
SocialGAN: Generating infinitely many hyper-realistic faces with a simple web application.

## Honors & Awards

- 2019 **Massive Online Data Collection with Dallinger Workshop Travel Grant,** *Max Planck Institute for Empirical Aesthetics.*
- 2019 **Dartmouth MIND Computational Summer School Fellowship,** *Dartmouth College.*
- 2019 **NEI Postdoctoral Travel Grant,** *National Eye Institute.*  
Awarded to cover cost of attendance for the annual meeting of the Vision Sciences Society.
- 2015–2018 **NSF Graduate Research Fellowship,** *National Science Foundation.*
- 2017 **Rosenkranz Grant for Pedagogical Advancement,** *Yale Center for Teaching and Learning.*  
Awarded for developing a web-based interactive life simulation for pedagogy in public health.
- 2017 **Yale Dean's Emerging Scholar Award,** *Dean's Office, Yale University.*  
Awarded to 10 minority graduate students each year to cover research-related expenses.
- 2007 **National Additional Science Scholarship,** *Trinidad & Tobago Government.*  
4-year scholarship awarded to Trinidadians to pursue an undergraduate degree abroad.

## Journal Articles

Reed, E. J., **Uddenberg, S.**, Suthaharan, P., Mathys, C. H., Taylor, J. R., Groman, S. M., & Corlett, P. R. (2020). Paranoia as a deficit in non-social belief updating. *eLife*, *9*:e56345. doi: 10.7554/eLife.56345. [Full text]

**Uddenberg, S.**, & Scholl, B. J. (2018). TeleFace: Serial reproduction of faces reveals a Whiteward bias in race memory. *Journal of Experimental Psychology: General*, *147*, 1466-1487. [Full text]

\*Ongchoco, J. D. K., \***Uddenberg, S.**, & Chun, M. M. (2016). Statistical learning of movement. *Psychonomic Bulletin & Review*, *23*, 1913-1919. \*Equal author contribution. [Full text]

van Buren, B., **Uddenberg, S.**, & Scholl, B. J. (2016). The automaticity of perceiving animacy: Goal-directed motion in simple shapes influences visuomotor behavior even when task-irrelevant. *Psychonomic Bulletin & Review*, *23*, 797-802. [Full text]

**Uddenberg, S.**, & Shim, W. M. (2015). Seeing the world through target-tinted glasses: Positive mood broadens perceptual tuning. *Emotion*, *15*, 319-328. [Full text]

## Manuscripts

**Uddenberg, S.**, & Scholl, B. J. (under revision). Ten angry men: Serial reproduction of faces reveals that angry faces are represented as more masculine.

**Uddenberg, S.**, & Scholl, B. J. (under review). Angrier = Blacker?: The influence of emotional expression on the representation of race in faces, measured with serial reproduction.

**Uddenberg, S.**, Newman, G. E., & Scholl, B. J. (under revision). Perceptual averaging in visual communication: Ensemble representations in the perception of scientific data in graphs.

Colombatto, C., **Uddenberg, S.**, & Scholl, B. J. (under review). The speed of demography in face perception.

Peterson, J. C., **Uddenberg, S.**, Suchow, J. W., Griffiths, T. L., & Todorov, A. (in preparation). A comprehensive model of trait perception for photorealistic faces.

## Presentations & Talks

**Uddenberg, S.**, Thompson, B., Vlasceanu, M., Griffiths, T. L., & Todorov, A. (2020). A face you can trust: Iterated learning reveals how stereotypes of facial trustworthiness may propagate in the absence of evidence. Poster presented at the 20th annual meeting of the *Vision Sciences Society*, 6/21/20.

Kwak, J., **Uddenberg, S.**, & Scholl, B. (2020). Will it fall?: Exploring the properties that mediate perceived physical instability. Poster presented at the 20th annual meeting of the *Vision Sciences Society*, 6/21/20.

**Uddenberg, S.**, Colombatto, C., & Scholl, B. (2019). The speed of demography in face perception. Poster presented at the 19th annual meeting of the *Vision Sciences Society*, 5/21/19, St. Pete Beach, FL.

**Uddenberg, S.,** Newman, G. E., & Scholl, B. (2019). Ensemble representations in the perception of graphs. Talk given at the *InfoVis x Vision Science* satellite at the 19th annual meeting of the *Vision Sciences Society*, 5/20/19, St. Pete Beach, FL.

**Uddenberg, S.,** & Scholl, B. (2018). Ten angry men: Serial reproduction of faces reveals that angry faces are represented as more masculine. Poster presented at the 18th annual meeting of the *Vision Sciences Society*, 5/20/18, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 18(10), 608.]

**Uddenberg, S.,** & Scholl, B. (2017). "TeleFace": Revealing default attractors in face space with serial reproduction. Invited talk at the *Vision Lunch Series*, Stanford University, 7/23/17, Stanford, CA.

**Uddenberg, S.,** & Scholl, B. (2017). Angrier = Blacker?: The influence of emotional expression on the representation of race in faces, measured with serial reproduction. Talk given at the 17th annual meeting of the *Vision Sciences Society*, 5/23/17, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 17(10), 912.]

Ongchoco, J. D. K., **Uddenberg, S.,** & Chun, M. M. (2016). Statistical learning of movement. Poster presented at the 16th annual meeting of the *Vision Sciences Society*, 5/16/16, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 16(12), 1079.]

**Uddenberg, S.,** Newman, G., & Scholl, B. (2016). Perceptual averaging of scientific data: Implications of ensemble representations for the perception of patterns in graphs. Poster presented at the 16th annual meeting of the *Vision Sciences Society*, 5/16/16, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 16(12), 1081.]

Familiar, A., **Uddenberg, S.,** & Shim, W. M. (2015). Positive affect reduces visual crowding. Poster presented at the 15th annual meeting of the *Vision Sciences Society*, 5/17/15, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 15(12), 450.]

Guerin, S., **Uddenberg, S.,** Johnson, M., & Chun, M. M. (2015). Decoding the temporal structure of perception and reflection. Poster presented at the 15th annual meeting of the *Vision Sciences Society*, 5/18/15, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 15(12), 808.]

van Buren, B., **Uddenberg, S.,** & Scholl, B. (2015). The automaticity of perceiving animacy: Seeing goal-directed motion in simple shapes influences visuomotor behavior even when task-irrelevant. Poster presented at the 15th annual meeting of the *Vision Sciences Society*, 5/19/15, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 15(12), 1187.]

**Uddenberg, S.,** & Scholl, B. (2015). Revealing mental defaults in face space with serial reproduction. Poster presented at the 15th annual meeting of the *Vision Sciences Society*, 5/19/15, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 15(12), 1214.]

Shim, W.M., **Uddenberg, S.,** & Lee, Y. S. (2013). Changing pitch modulates motion-direction information in V1. Talk given at the 13th annual meeting of the *Vision Sciences Society*, 5/12/13, Naples, FL. [Abstract published in *Journal of Vision*, 13(9), 617.]

**Uddenberg, S.,** & Shim, W. M. (2012). The influence of emotion on feature-based attention: positive emotion broadens perceptual tuning curves. Poster presented at the 12th annual meeting of the *Vision Sciences Society*, 5/11/12, Naples, FL. [Abstract published in *Journal of Vision*, 12(9), 11.]

## Work Experience

2018– **Lead Developer**, *BodhiMetrics*.

- Designed and implemented several web-based behavioral tasks designed to test cognitive abilities using **Python** and **JavaScript**.

2011–2013 **Full-time Research Assistant & Lab Manager**, *Dartmouth College, Department of Psychological & Brain Sciences*.

Projects included investigating the impact of emotion on attention using psychophysics, and crossmodal interactions between audition and vision on cortical encoding using fMRI.  
*Principle Investigator: Won Mok Shim*

## Outreach & Non-profit Work

2017– **Open Mind – YHack’s Best Hack to Counter Fake News**, *New Haven, CT*.

- Created *Open Mind*, a Google Chrome web extension designed to counter **fake news** by providing users with news articles relevant to their interests – but from the other end of the political spectrum.
- Presented our extension and findings to the **US Congress** in August 2018.

2017 **MySight – HackPrinceton’s Best VR/AR Submission**, *Princeton, NJ*.

- Created *MySight*, a **virtual reality** application designed to perform a variety of clinical vision tests using any smartphone and Google Cardboard.
- Developed a working prototype with 4 different types of vision tests using **Unity** and **C#**.

2014–2016 **Code Up – Founder of Educational Non-profit**, *Port of Spain, Trinidad & Tobago*.

- Founded a non-profit organization in my birth country of Trinidad & Tobago to **reduce the gender gap** in computer science participation in the Caribbean.
- Developed program that taught 20 high-school girls algorithmic thinking using **JavaScript**.

## References

Prof. Brian Scholl	Yale University	brian.scholl@yale.edu
Prof. Marvin Chun	Yale University	marvin.chun@yale.edu
Prof. Alex Todorov	Princeton University	atodorov@princeton.edu

## Citizenship

U.S.A. | Trinidad and Tobago