

SEOYOUNG AHN

Psychology A135, Stony Brook, NY 11790

seoyoung.ahn@stonybrook.edu

RESEARCH INTEREST

Vision, Attention, Computational modeling, Eye tracking

EDUCATION

PhD, Stony Brook University, State University of New York

Sept. 2018 - present

Major in Cognitive Science (specializations in Vision)

Advisor: Gregory Zelinsky

MA, Seoul National University

Sept. 2016 – Aug. 2018

Major in Psychology (specializations in Psycholinguistics)

Advisor: Sungryong Koh

BA, Seoul National University

Mar. 2011 - Aug. 2016

Double major in Russian Language&Literature and Psychology

Advisor: Eunji Song, Sowon Hahn

HONORS AND AWARDS

- | | |
|------------|--|
| Mar. 2017 | Graduate Research Fellowship (2 year) , Seoul National University |
| Feb. 2016 | Undergraduate Best Student Paper , College of Social Science at Seoul National University |
| Sept. 2015 | Undergraduate Research Grant in Social Science , College of Social Science at Seoul National University |
| Mar. 2011 | The Next Century Humanities Scholarship (4 year) , Korean Student Aid Foundation (KOSAF) |

PUBLICATIONS

Adeli, H., **Ahn, S.**, & Zelinsky, G. (2021). Recurrent Attention Models with Object-centric Capsule Representation for Multi-object Recognition. arXiv preprint arXiv:2110.04954.

Ahn, S., Zelinsky, G., & Lupyan, G. (2021). Use of superordinate labels yields more robust and human-like visual representations in convolutional neural networks. *Journal of Vision*, 21(13), 1-19.

Chen, Y., Yang, Z., **Ahn, S.**, Samaras, D., Hoai, M., & Zelinsky, G. (2021). COCO-Search18 fixation dataset for predicting goal-directed attention control. *Scientific reports*, 11(1), 1-11.

Zelinsky, G. J., Chen, Y., **Ahn, S.**, & Adeli, H. (2020). Changing perspectives on goal-directed attention control: The past, present, and future of modeling fixations during visual search. *Psychology of Learning and Motivation*, pp. 231-286. Elsevier. 2020.

Ahn, S., Kelton, C., Balasubramanian, A., & Zelinsky, G. (2020). Towards Predicting Reading Comprehension From Gaze Behavior. In *ACM Symposium on Eye Tracking Research and Applications* (pp. 1-5).

Yang, Z., Huang, L., Chen, Y., Wei, Z., **Ahn, S.**, Zelinsky, G., Samaras, D. & Hoai, M.,(2020). Predicting Goal-directed Human Attention Using Inverse Reinforcement Learning. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition* (pp. 193-202).

Zelinsky, G., Yang, Z., Huang, L., Chen, Y., **Ahn, S.**, Wei, Z., & Hoai, M. (2019). Benchmarking Gaze Prediction for Categorical Visual Search. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops

Kelton, C., Wei, Z., **Ahn, S.**, Balasubramanian, A., Das, S. R., Samaras, D., & Zelinsky, G. (2019, June). Reading detection in real-time. In Proceedings of the 11th ACM Symposium on Eye Tracking Research & Applications (p. 43). ACM.

TALKS AND POSTER PRESENTATIONS

Ahn, S., Zelinsky, G. J., Lupyan, G. (2020). Exploring the effects of linguistic labels on learned visual representations using convolutional neural networks. *Live talk presented at the Annual Meeting of Vision Science Society (VSS), St. Pete Beach, FL. 2020*

Ahn, S., & Zelinsky, G. J. (2019). Predicting Mental States from Eye Movements During Reading. Journal of Vision, 19(10), 127b-127b. *Poster presented at the Annual Meeting of Vision Science Society (VSS), St. Pete Beach, FL. 2019*

TEACHING EXPERIENCE

Statistics, Stony Brook University <i>Lab Instructor</i>	Fall 2020
--	-----------

Research and Writing, Stony Brook University <i>Instructor</i>	Summer 2020
--	-------------

Research and Writing, Stony Brook University <i>Lab Instructor</i>	Spring 2020
--	-------------

Introduction to Psychology, Seoul National University <i>Teaching Assistant</i>	Spring 2017, Fall 2017
---	------------------------

PROFESSIONAL ACTIVITIES

Stony Brook GWISE Python Workshop <i>Organizer/Main Instructor</i>	Winter 2022
--	-------------

- Organized and instructed python programming for data analysis and visualization affiliated with GWISE (Graduate Women in Science and Engineering) at Stony Brook University

Soojinjae Brain Science <i>Research Assistant</i>	Sept. 2016 – Sept. 2017
---	-------------------------

- Helped develop a screening tool for developmental dyslexia using the Hierarchical Bayesian Item Response Theory (IRT) approach

SKILLS

Modeling and Analysis	Python, R, Matlab, and Mplus
Experiment	Eyelink , Eyelink 1000, Mobile Eye E-prime, Psychopy
Software Tools	MS Office, Latex
Language	Korean, English, Russian

REFERENCES

Dr. Gregory Zelinsky

Department of Psychology, Stony Brook University, NY 11790

Phone: +1 (631) 632-7827 E-mail: gregory.zelinsky@stonybrook.edu

Dr. Sungryong Koh

Department of Psychology, Seoul National University

1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea

Phone: +82 10-7306-7151 E-mail: koh@snu.ac.kr