SEOYOUNG AHN

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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

Statistics, Stony Brook University Fall 2020
Lab Instructor

Research and Writing, Stony Brook University Summer 2020
Instructor

Research and Writing, Stony Brook University Spring 2020
Lab Instructor

Introduction to Psychology, Seoul National University Spring 2017, Fall 2017
Teaching Assistant

PROFESSIONAL ACTIVITIES

GWISE Python Workshop Winter 2022
Organizer/Instructor

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

Sooinjae Brain Science Sept. 2016 – Sept. 2017
Research Assistant

· 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
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Dr. Sungryong Koh
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