

Dr. Seng Bum Michael Yoo's lab at the Institution of Basic Science and Department of Biomedical Engineering is looking for a postdoc, Ph.D. students, Master students, and Undergraduate intern. We use electrophysiology and behavioral modeling to investigate higher cognition under a naturalistic behavior context.

### **Selected Publication**

- Yoo, S. B. M., Tu, J. C., & Hayden, B. Y. Multicentric tracking of multiple agents by anterior cingulate cortex during pursuit and evasion. (2021, accepted) NatureCommunications
- Bala, P.C., Eisenreich, B.R., Yoo, S.B.M., Hayden, B.Y., Park, H.S., and Zimmermann, J.(2020). Automated markerless pose estimation in freely moving macaques withOpenMonkeyStudio. Nature Communications11, 4560.
- Yoo, S.B.M., Tu, J.C., Piantadosi, S.T., and Hayden, B.Y. (2020). The neural basis of predictive pursuit. Nature Neuroscience 23, 252–259.
- Yoo, S.B.M., and Hayden, B.Y. (2020). The Transition from Evaluation to SelectionInvolves Neural Subspace Reorganization in Core Reward Regions. Neuron 105,712-724.e4.
- Yoo, S.B.M., and Hayden, B.Y. (2018). Economic Choice as an Untangling of Optionsinto Actions. Neuron 99, 434–447.

### **Preferred qualification**

- Biomedical engineering, Computer science, electrical engineering, mechanical engineering, theoretical physics, statistics, mathematics, cognitive science, psychology.
- Experience in Python (Pytorch, Tensorflow) / Matlab
- Still, even if you do not fit into those criteria, an efficient self-learner is welcome to apply.

### **Documents to submit**

- For who are applying for postdoc, Ph.D., and Masters: transcripts, CV, publications, Github (if you have one)

### **Supports for the lab**

- Tuition and Stipend according to IBS policy
- Summer schools abroad
- Visiting collaborators abroad
- Books, online certification, etc

### **How to apply**

- email sbyoo.skku.bme@gmail.com