



### **POSITION SUMMARY**

This advertisement is for a Post-Doc (Ph.D./M.D.) position. The project is designed to develop and implement a Bayesian non-parametric dimensionality reduction toolkit (i.e., Indian Buffet Process) that quantifies neurocognitive functioning across domains and modalities to better understand adolescent behavior. Data for this project will include neuroimaging and behavioral data from the Adolescent Brain Cognitive Development<sup>SM</sup> (ABCD) Study, which collects annual measures of the brain and neurocognition for approximately 12,000 youth. This work has the potential to (a) provide a methodologically rigorous foundation for measuring multimodal components of neurocognition, (b) demonstrate the feasibility of measuring person-specific neurocognitive fingerprints, and (c) document the utility of such fingerprints for capturing real-world adolescent behavior.

### **RESPONSIBILITIES**

Responsibilities will include developing and testing our Bayesian dimensionality reduction toolkit with different data types (e.g., neuroimaging, neuropsychological tests, questionnaires), presenting data at national and international meetings, and preparing manuscripts for publication.

### **NECESSARY SKILLS/QUALIFICATIONS**

A doctoral degree and promising publication record in data science or psychology. An extremely strong programming (e.g., Python, R) and data analysis background are required. The applicant should be self-motivated, able to work independently, an effective communicator, and reliable.

### **ADMINISTRATIVE DETAILS**

Applications will be reviewed continuously until the position is filled. Start date is flexible depending on candidate availability. Full salary and benefits in accordance with NIMH post-doctoral salary guidelines are guaranteed for at least two years. Funds for a new computer will be provided.

Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.

### **CONTACT**

For additional information, contact Dr. Arielle Baskin-Sommers ([arielle.baskin-sommers@yale.edu](mailto:arielle.baskin-sommers@yale.edu)). To apply, please email a cover letter, a current CV or resume, and the names and contact information for three references to Dr. Baskin-Sommers.