



**Weill Cornell  
Medicine**



**Computational Connectomics  
(CoCo) Laboratory**

Department of Radiology  
Weill Cornell Medicine, New York, NY  
Cornell University, Ithaca, NY

## Postdoctoral Associate in AI and Computational Neuroimaging for Women's Brain Health

### **Qualifications:**

- Ph.D. in a related field such as Computer Science, Engineering, Applied Mathematics, Statistics, Physics, Computational Biology, or Neuroscience.
- Strong background in AI/ML and/or other computational methods.
- Experience with AI tools, neuroimaging preprocessing and data analysis software and tools (e.g., Python, MATLAB, R, FSL, Freesurfer).
- Experience with processing and analyzing neuroimaging data, including anatomical, functional and diffusion MRI.
- Strong analytical and problem-solving skills.
- Excellent written and oral communication skills.
- Strong collaboration and teamwork skills.
- Excellent publication record.

Most of what we know about health and disease centers on the male body. This also applies to the field of neuroscience, where only 0.5% of research papers in the field over the past few decades have investigated issues relating to women's brain health, including the menstrual cycle, the pill, pregnancy, and menopause. Please consider joining us if you want to change this statistic and contribute your knowledge and skills to unveiling the mysteries of women's brains.

We are seeking **two** highly motivated and skilled postdoctoral researchers to join our team in the field of AI and computational analysis applied to neuroimaging data for the purpose of improving women's brain health. The successful candidate will work on projects utilizing Artificial Intelligence (AI) and other computational methods to analyze neuroimaging data related to women's health, including how the brains of women are impacted by adolescence, oral contraceptives, hormones, pregnancy, motherhood, menopause.

### **Responsibilities:**

- Design, implement and disseminate AI and computational methods for analyzing neuroimaging data to answer questions related to women's brain health issues.
- Collaborate with other Computational Connectomics Laboratory members as well as our external collaborators to design and execute experiments.
- Interpret and present results in both written and oral formats.
- Contribute to the development of new methods and techniques in the field.
- Stay informed of current developments and advancements in the field through literature review and attending conferences.

- Summarize and publish results in academic journals and present work at international conferences.

This is a full-time postdoctoral position, with a competitive salary and benefits package. The salary established below per annum commensurate with qualification experience:

\$64,272 - \$77,234.

Weill Cornell Medicine provides the above salary range in compliance with the New York City law on Salary Transparency in Job Advertisements. The above salary range for New York City based roles represents WCM's good faith and reasonable estimate of possible compensation at the time of posting.

The successful candidate will be based in our research center in Ithaca, NY and will have the opportunity to collaborate and train with leading experts in the field across the country. This includes leaders in AI for medical imaging at Weill Cornell Medicine and Cornell Tech in New York City as well as leaders in women's brain health research at the University of California system through The Ann S. Bowers Women's Brain Health Initiative (see <https://wbhi.ucsb.edu/>). If you are passionate about AI, neuroimaging data analysis and furthering our understanding of women's brain health, we would love to hear from you. Please send a CV, 1 page research/personal statement, and cover letter outlining your qualifications and experience to Dr. Amy Kuceyeski at [amk2012@med.cornell.edu](mailto:amk2012@med.cornell.edu).

Diversity is one of Weill Cornell Medicine's core values and is essential to achieving excellence in patient care, research, and education. We welcome applications from candidates who share our commitment to fostering a culture of fairness, equity, and belonging. Weill Cornell Medicine is an Equal Employment Opportunity Employer, providing equal employment opportunities to all qualified applicants without regard to race, sex, sexual orientation, gender identity, national origin, color, age, religion, protected veteran or disability status, or genetic information.