

Topics in Cognitive Neuroscience

880A, Fall 2026

Class Meets: J.S. Coon 116

When: Thursday 12:30 PM – 3:15 PM

Course modality: In-person only (no Zoom link for any class day)

Instructors:

Tammy Tran, Ph.D.

Assistant Professor

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Office Hours: By appointment

Office Location: J.S. Coon Psychology Room 220B

Woon Ju Park, PhD

Assistant Professor

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Office Hours: By appointment

Office Location: J.S. Coon Psychology Room 225

GT Academic Calendar: <https://registrar.gatech.edu/calendar>

Description:

This course critically examines contemporary methodology in human neuroimaging. This journal-style seminar series provides an in-depth overview of foundational and cutting-edge neuroimaging approaches.

Each week, students will analyze, present and discuss a peer-reviewed research article focusing on novel methodological developments, data analysis pipelines, experimental design and statistical inference. Topics will include reproducible open-science practices, machine learning applications in brain decoding and multimodal MRI. Through student-led presentations and discussion, participants will develop the analytical skills necessary to evaluate the neuroimaging literature and discuss current and development methods in neuroimaging.

Text: There is no required text for this course.

Course Goals: After successfully completing this course, you should be able to:

- Critically evaluate the current neuroimaging literature, which includes assessing the methodological rigor, statistical analyses and experimental design of papers
- Lead and facilitate high-level technical presentation on evolving methods in human neuroscience

Evaluation Methods and Gradings: Your grade will be determined by your class participation. Students are required to present 1 paper per semester if you are attending the course for a grade.

Campus Resources for Students

There is a myriad of resources at Georgia Tech to support you. If you are experiencing concerns, seeking help is a courageous thing to do for yourself and those who care about you. Below you will find some resources to support you both as a student and as a person.

Academic support

- Center for Academic Success <http://success.gatech.edu>
 - Tutoring & Academic Support <https://tutoring.gatech.edu/>
 - Peer-Led Undergraduate Study (PLUS) <http://success.gatech.edu/tutoring/plus>
 - Academic coaching <http://success.gatech.edu/coaching>
- Residence Life's Learning Assistance Program
<https://housing.gatech.edu/learning-assistance-program>
 - Drop-in tutoring for many 1000 level courses
- Office of Student Achievement (<https://achievement.gatech.edu/>)
 - Success and academic achievement – mentoring, skill building, study strategies
- Communication Center (<http://www.communicationcenter.gatech.edu>)
 - Individualized help with writing and multimedia projects
- Academic advisors for your major
<http://advising.gatech.edu/>

Personal Support

Georgia Tech Resources

- **The Office of the Dean of Students:** <https://studentlife.gatech.edu/> **404-894-6367**; Smithgall Student Services Building 2nd floor
- You also may request assistance at https://gatech-advocate.symplicity.com/care_report/index.php/pid423974?
- **Center for Mental Health Care & Resources** provides crisis intervention, testing and assessment, short-term individual counseling, group counseling, couples counseling, and referrals to on and off campus resources.
 - To schedule an appointment, you can call the Center at **404-894-2575** or walk into the office, Suite 238, Smithgall Student Services “Flag” Building to schedule an

appointment. Services include short-term individual counseling, group counseling, couples counseling, testing and assessment, referral services, and crisis intervention. *Students in crisis during the day can walk into the assessment suite (8am-4pm, Monday through Friday). To reach the on call after hours (after 5:00 pm on weekends and during the weekends) call 404-894-2575 and follow the prompts.*

- Students' Temporary Assistance and Resources (STAR):
<https://star.studentlife.gatech.edu/>
 - STAR services include Campus Closet, Financial Assistance, Housing, and Klemis Kitchen
- **Stamps Health Services:** <https://health.gatech.edu/>; 404-894-1420
 - Primary care, pharmacy, women's health, psychiatry (referrals to psychiatry start in the Center for Mental Health Care & Resources), immunization and allergy, health promotion, and nutrition
- **Wellness Empowerment Center:** wellnesscenter.gatech.edu/ 404-894-9980
 - WE Center provides upstream, innovative, and relevant programs, services, and initiatives to help students and employees thrive.
 - VOICE Victim-Survivor Support: <https://healthinitiatives.gatech.edu/support-services/advocacy>
- **Women's Resource Center:** <http://www.womenscenter.gatech.edu/>; 404-385-0230
- **LGBTQIA Resource Center:** <http://lgbtqia.gatech.edu/>; 404-385-2679
- **Veteran's Resource Center:** <http://veterans.gatech.edu/>; 404-385-2067
- **OMED: Educational Services:** <http://www.omed.gatech.edu/>; 404-894-3959
- **Georgia Tech Police:** <https://police.gatech.edu/> 404-894-2500

Statement of Intent for Inclusivity

As a member of the Georgia Tech community, we are committed to creating a learning environment in which all our students feel safe and included. Because we all are individuals with varying needs, we are reliant on your feedback to achieve this goal. To that end, we invite you to enter into dialogue with us about the things we can stop, start, and continue doing to make my classroom an environment in which every student feels valued and can engage actively in our learning community.