# Serena J. Gu 顾静睿

Richmond, VA | ✉ serenajgu [at] gmail.com | ⌗ cyfloar | serenajgu.com

## EDUCATION

**2020 - 2022**   **Teachers College, Columbia University**, New York, NY
M.A., Clinical Psychology
Mentor: Lisa M. Ranzenhofer, Ph.D.
Thesis: Self-Referential Processing Biases in Patients with Anorexia Nervosa

**2017 - 2020**   **University of Toronto, Innis College**, Toronto, ON
HBSc with Distinction
Specialist in Psychology, Major in Industrial Relations and Human Resources
Mentor: Brett A. Cochrane Ph.D.

## RESEARCH INTERESTS

**Conceptual interests**: Transdiagnostic mechanisms of internalizing (anxiety, depression, eating) disorders, especially maladaptive planning, decision-making, and learning

**Methodological interests**: Computational modeling and multi-modal approaches (neurocognitive tasks, neuroimaging (MRI, fMRI and EEG), and ecological momentary assessments)

## AWARDS

**2024**   **Computational Modeling Workshop Travel Award (~$500)**,
Scientific Research Network on Decision Neuroscience and Aging

## PEER-REVIEWED PUBLICATIONS

2. **Gu, S. J.**, Aimufua, I., Pagliaccio, D., Shankman, S. A., Steinglass, J. E., Auerbach, R. P., Walsh, B. T. & Ranzenhofer, L. M. (2024). Self-referential processing in anorexia nervosa. *International Journal of Eating Disorders, 57*(5), 1234-1244. doi: 10.1002/eat.24176

1. Lee., S., **Gu S. J.**, Derrigo, K. & Haynos, A. (In Preparation). *General and Disorder-Specific Reward Processing in Individuals with Anorexia Nervosa and Suicidality: Evidence from Two Behavioral Tasks* [Pre-registration]

## PAPER PRESENTATIONS

5. Lloyd E. C., Muratore A. F., Hu S., **Gu S. J.**, Pines J., Foerde K., Peña-González M., Ehrlich S., Thompson P., Steinglass J. (2024, September) *Developing ENIGMA protocols for large-scale analysis of white matter properties in anorexia nervosa.* Eating Disorders Research Society (EDRS), Spain, Sitges.

4. **Gu, S. J.**, Aimufua, I., Pagliaccio, D., Shankman, S. A., Steinglass, J., Auerbach, R. P., & Ranzenhofer, L. M. (2023, June). *Self-referential processing biases in patients with anorexia nervosa.* [Paper Presentation] International Conference on Eating Disorders (ICED), United States, Washington D.C.

3. Patmore, J., Ranzenhofer, L. M., Attia, E., **Gu, S. J.**, Xu, S., & Kalach, V. (2022, June). *The role of alliance in a peer mentorship program for individuals with eating disorders.* [Paper Presentation] International Conference on Eating Disorders (ICED) (Virtual Conference).

2. Patmore, J., Ranzenhofer, L. M., Attia, E., Kalach, V., **Gu S. J.**, Chiao, S., Nathan, R., Akason, T., Atri, E., Clarizio, D., Agrawal, P., & Farber, B. (2022, July). *How patient knowledge of provider lived experience with an eating disorder facilitates positive outcomes.* [Panel Discussion] Society for Psychotherapy Research (SPR), University of Denver, Denver, Colorado.

1. Patmore J., Sinclair C., Cao E., Ng S., Mayall D., Agrawal P., **Gu S. J.**, Chiao S., & Kalach V. (2021, July). *The utility of lived experience with an eating disorder as a therapeutic tool to facilitate client self-disclosure: An evaluation of a peer-based community support group.* [Paper Presentation] Society for Psychotherapy Research (SPR), United States (Virtual Conference).

## POSTER PRESENTATIONS

6. Lloyd E. C., Ojeda J. **Gu S. J.**, Foerde K. E., Ligaya K., Shohamy D., Steinglass J. (2024, March) *Can thinking about the future increase food intake now in anorexia nervosa.* International Conference for Eating Disorders (ICED), United States, New York.

5. Ranzenhofer, L., Trivedi, E., Aimufua, I., **Gu S. J.**, Steinglass J., Auerbach R. P. (2023, September) *Passive sensing of social processes in adolescents with an eating disorder.* Eating Disorders Research Society (EDRS), United States, Boston.

4. Aimufua, I., Ranzenhofer, L., **Gu S. J.**, Steinglass, J., Walsh, B. T. (2023, June) *Concordance of the EDE-Q and EDE-12 in a clinical sample of patients with eating disorders.* International Conference on Eating Disorders (ICED), United States, Washington D.C.

3. Tang J. E., Kurylo, D. D., **Gu S. J.**, Jain, M., Waxman, R., & Gordon, P. (2021, May). *Neural correlates of visual perceptual organization (PO) in an EEG oddball paradigm.* Association for Psychological Science (APS), United States (Virtual Conference).

2. Cochrane B.A., **Gu S. J.** & Pratt J. (2020, November). *Are event files due to a long-term or a short-term memory process?* The Psychonomic Society 61st Annual Meeting (Virtual Conference).

1. Cochrane B.A., **Gu S. J.** & Pratt J. (2020, June). *Are Event Files due to a long-term or a short-term memory process? The Transdisciplinary Research Association on Cognition and Embodiment 7th Annual Meeting, Germany, Würzburg (Cancelled Conference).*

## PROFESSIONAL PRESENTATIONS

2. **Gu S. J.** (2024, August). Moderator. In Hagan, K., & Johnson-Munguia, S. (Speakers) *Atypical anorexia nervosa: From current insights and challenges to future research directions?* Academy for Eating Disorders, Online Webinar.

1. **Gu S. J.** (2020, November). Moderator. In Lebowitz, E. (Speaker) *SPACE: Parent Based Treatment for Childhood Anxiety and OCD.* Association for Behavioral & Cognitive Therapies, Online Webinar.

## RESEARCH EXPERIENCE

Jul 2024 - Present
[40hrs/week]

**Clinical Research Coordinator**, Translational Research on Eating & Affect Lab
- Sole coordinator for multi-modal neuroimaging and neurocognitive studies investigating the mechanisms of eating disorders, primarily bulimia nervosa
- Coordinated recruitment, screening, and consenting process for interested participants
- Supervised and mentored undergraduate research interns (N=2) and held weekly 1-1 meetings

***Study: Deciphering the Cognitive and Neural Underpinnings of Risk-Taking in Eating Disorders - Kelsey E. Hagan, Ph.D.***, BIRCWH, K12 AR084233
- Developed REDCap survey pipeline for participant registry
- Created EMA questionnaires assessing eating behaviors and emotions in json format on PiLR
- Administered clinical (MINI, EPSI-CRV, SCID, Age of Onset) and cognitive assessments (WASI-II)
- Adapted one neurocognitive task for online use and one for MRI
- Administered fMRI (and neuromelanin) scans to adolescents and young adults with bulimia nervosa

Jul 2022 - Jun 2024
[40 hrs/week]
Aug 2021 - Jul 2022
[20 hrs/week]

**Clinical Research Coordinator**, Columbia Center for Eating Disorders
- Primary coordinator for three neuroimaging studies examining mechanisms of eating disorders (behaviors) and one ten-year longitudinal study following up with patients post-inpatient treatment
- Coordinated recruitment, screening, and admission processes for patients on the inpatient unit
- Administered clinical (EDA-5, SCID, K-SADS, Age of Onset) and cognitive assessments (WASI)
- Managed data collection, entry, and cleaning from databases (CRMS, REDCap, kisEMR, paper charts)
- Preprocessed the MRI data with fMRIPrep and Ciftify pipeline and reviewed quality assurance outputs
- Coded (N=6) three behavioral and three scanner versions of neurocognitive tasks in PsychoPy (Food Choice Task (FCT), Two Step Task (TST), Incentive Flanker Task (IFT), available on GitHub)

***Study: Restrictive and Binge Eating during Adolescence: the Role of Self-Related Cognitions and Social Stress - Lisa M. Ranzenhofer, Ph.D.***, K23 MH121780
- Coordinated study meetings, research procedures, and research compliance activities
- Ran EEG and multi-item meal procedures (N=~40) with adolescents with/without eating disorders
- Administered the Age of Onset and six-month follow-up interviews with participants
- Managed EEG, EMA, and behavioral data collection and cleaning

***Study: The Physiology of the Weight Reduced State - Laurel S. Mayer, M.D.***, UG3 DK128302
- Coordinated study meetings and research procedures
- Developed REDCap survey pipeline with complex logic tools and piloted FCT at a new MRI center
- Ran MRI (neuromelanin, DTI) and meal procedures with weight-reduced individuals (N=~10)
- Trained coordinators at collaborating sites to set up and administer a neurocognitive task

*Study: The Role of Dopamine in the Persistence and Remission of Anorexia Nervosa during Adolescence - Blair W. Uniacke, M.D.*, Brain & Behavior Research Foundation NARSAD 2021
- Communicated with IRB, coordinated study meetings, procedures, and research compliance activities
- Ran MRI (neuromelanin) scans (N=~30) on adolescents/young adults with/without eating disorders
- Administered the Two Step Task and the Age of Onset interview with participants
- Prepared behavioral and neuromelanin scan data for analysis

*Study: Longitudinal Follow-up for the Eating Disorders Research Unit - Evelyn Attia, M.D.*
- Coordinated research compliance activities and aided transfer from local IRB to commercial IRB
- Consented (and assented if < 18 years old) patients (and parents) for the study
- Managed database (N=~500) and data collection with 10-year and 20-year follow-up questionnaires

**Jun 2021 - Jun 2022**
**[10 hrs/week]**

**Graduate Research Assistant**, COLUMBIA NEUROIMAGING LAB
*Study: Aging and Cognitive Reserve Using Magnetic Resonance Spectroscopy - Yunglin Gazes, Ph.D.*
- Preprocessed MRS data with INSPECTOR neuroimaging tool and ran LCM analysis
- Conducted literature search on MRS studies in aging-related topics and cognitive reserve

**Nov 2020 - Jul 2022**
**[5 hrs/week]**

**Graduate Research Assistant**, SUICIDE RESEARCH LAB
*Study: Suicide Prevention: Safety Plan Evaluation - Christa Labouliere, Ph.D.*
- Evaluated and coded Stanley-Brown Suicide Prevention Safety Plan (N=378) via REDCap
- Discussed with team members to reach a consensus on ambiguous safety plans

*Study: Social Stress in Individuals with Suicide Intent and Ideation - Barbara H. Stanley, Ph.D.*
- Ran the Trier Social Stress Test (TSST) experiments (N=~20) and briefed participants afterward
- Accompanied participants (suicide attempters/ideators/healthy control) to blood draws

**Nov 2020 - Jun 2021**
**[10 hrs/week]**

**Graduate Research Assistant**, LANGUAGE AND COGNITIVE NEUROSCIENCE LAB
*Study: Neural Correlates of Visual Perceptual Organization in Patients with Schizophrenia/Schizotypal Personality Disorder using EEG and Gazepoint - Jean E. Tang, Ph.D. & Peter Gordon, Ph.D.*
- Developed visual experiment to examine perceptual organization in schizophrenia via PsychoPy
- Cleaned Gazepoint and behavioral data from Qualtrics and ran ANOVA in Python

**Nov 2020 - Jun 2021**
**[5 hrs/week]**

**Graduate Research Assistant**, EATING DISORDERS & DISCLOSURE LAB
*Study: Project Healing: The Utility of Lived Experience with Eating Disorders as a Therapeutic Tool: an Evaluation of Peer-Based Community Support Group - Jacqueline Patmore, Ph.D.*
- Coded qualitative survey responses from Qualtrics and visualized the data in slides
- Edited an abstract and slides for two conference presentations

**Jan 2020 - May 2020**
**[8 hrs/week]**

**Undergraduate Research Assistant**, VISUAL COGNITION LAB
*Study: Event Files in Short/Long-Term Memory- Brett A. Cochrane, Ph.D. & Jay Pratt, Ph.D.*
- Recruited participants and ran behavioral experiments in PsychoPy (N=25)
- Performed t-test and two-way ANOVA in R and edited a manuscript

**Nov 2019 - May 2020**
**[2 hrs/week]**

**Undergraduate Research Assistant**, ANXIETY RESEARCH AND TREATMENT LAB
*Study: Reassurance Behaviors in Body Dysmorphia - Olivia Provost-Walker & Martin Antony, Ph.D.*
- Recruited participants with various platforms, connections, and resources efficiently
- Conducted literature review on body dysmorphic disorder and reassurance behaviors

**May 2019 - May 2020**
**[4 hrs/week]**

**Undergraduate Research Assistant**, MIND AND BODY LAB
*Study: The Effect of Pain on Moral Judgments - Spike Lee, Ph.D.*
- Ran 15-minute moral experiments with individuals of different races/ethnicities off-campus
- Collected data, accurately entered the data, and assisted in literature review on embodiment
- Coded qualitative data for MTurk datasets (N=2000)

---

ASSESSMENT TRAINING

**Jul 2024 - Present**

**Assessor**, Translational Research on Eating and Affect Lab
*Supervised by Kelsey E. Hagan, Ph.D.*

**Jul 2022 - Jun 2024**

**Assessor**, Columbia Center for Eating Disorders
*Supervised by Lisa M. Ranzenhofer, Ph.D. and Alexandra F. Muratore, Ph.D.*
- Administered the following cognitive assessments:
  - Wechsler Abbreviated Scale of Intelligence I & II (WASI-I & WASI-II)
  - Yale-Brown-Cornell Eating Disorders Scale (YBC-ED)

- Administered the following semi-structured clinical interview:
  - Age of Onset (AOO) interview (assessing eating disorders)
  - Eating Disorder Assessment for DSM-5 (EDA-5)
  - Eating Disorder Diagnostic Interview (EDDI)
  - Eating Pathology Symptoms Inventory - Clinician Rated Version (EPSI-CRV)
  - Kiddie Schedule for Affective Disorders and Schizophrenia - Lifetime Version (K-SADS-PL)
  - Mini-International Neuropsychiatric Interview (M.I.N.I.)
  - Structured Clinical Interview for DSM-5 Disorders (SCID-5)

## CLINICAL EXPERIENCE

**Jul 2022 - Jun 2024**   **Attendee and Presenter at Rounds**, Inpatient Unit at Columbia Center for Eating Disorders
*Supervised by Blair W. Uniacke, M.D.*
- Attended rounds to discuss details and progress about patients on the inpatient unit
- Presented scheduled research procedure and research eligibility during rounds

**Sep 2023 - Nov 2023**   **Attendee**, Cognitive Behavioral Therapy Class at Columbia Center for Eating Disorders
*Supervised by Dr. Michael J. Devlin, MD*
- Attended the CBT classes with medical residents and reviewed relevant class materials
- Shadowed residents conducting CBT activities with patients on the inpatient unit for eating disorders, including cognitive/behavioral model, decision analysis, cognitive distortion, and relapse prevention

**Sep 2021 - Apr 2022**   **Study Therapist (Coach)**, R01 MH115128
**[4 hrs/week]**   *Study: Harnessing Mobile Technology to Reduce Mental Health Disorders in College Populations (iAIM EDU) - Elsa Rojas, Ph.D. & Ellen Fitzsimmons-Craft, Ph.D.*
- Provided feedback for college-student users with eating disorder/anxiety/depression on their progress
- Attend weekly one-hour supervision on how to provide positive feedback as a coach using CBT skills
- Used digital CBT evidence-based treatment tools to encourage users to utilize self-guided modules

**May 2019 - Aug 2019**   **Phone Interviewer**, WORKPLACE SAFETY & INSURANCE BOARD, SURVEY UNIT
**[10 hrs/week]**  
- Conducted 10-20-minute phone interviews with injured workers, employers, and providers about their experience handling workplace injuries

## TEACHING EXPERIENCE

**Feb 2023**
**Jan 2022**   **Teaching Assistant**, Eye Tracking Methods and Dynamic Data Analysis
**May 2021**   *Graduate psychology class: BSSN 4070 by Peter Gordon, Ph.D. at TC, Columbia University*
- Delivered a 90-minute lecture on designing and creating experiments using PsychoPy
- Presented how to create Stroop Task, Posner Task, and Perceptual Organization Task

**Jan 2022**   **Teaching Assistant**, Explorations in Madness: Schizophrenia and Other Psychotic Disorders
*Graduate clinical psychology class: CCPX 4070 by Paul Saks, Ph.D. at TC, Columbia University*

**Sep 2021**   **Teaching Assistant**, Adult Personality and Psychopathology
*Graduate clinical psychology class: CCPX 5032 by Paul Saks, Ph.D. at TC, Columbia University*
- Contributed to the development of teaching materials (e.g. syllabus)
- Performed teaching duties and assisted assessment of homework, assignments, and exams

## SERVICE

**Aug 2018 - Apr 2019**   **Residence Advisor**, UNIVERSITY OF TORONTO, SCARBOROUGH
**[25 hrs/week]**  
- Promoted inclusivity through facilitated dialogue, community development, and peer education
- Responded to all emergencies, crises in residence, and documented incidents timely
- Planned and hosted various biweekly events for 30-40 students within the expected timeframe

**Apr 2018 - Apr 2019**   **Student Academic Advisor**, UNIVERSITY OF TORONTO, SCARBOROUGH
**[10 hrs/week]**  
- Screened student inquiries and directed them to appropriate resources over the phone
- Answered academic questions from undergraduate students, including course selection, resume/CV revision, and job search, and scheduled academic advising appointments for them
- Wrote blogs to communicate effective study skills, exam preparation, and learning

## CODING AND TASK DEVELOPMENT

| 2024 | **Risk and Ambiguity Task**, *Levy et al., 2010,* |
|---|---|
| | Modified the MRI version in Matlab |
| 2024 | **Maggie's Farm Task**, *Dubois et al., 2021,* |
| | Adapted the web-app version to local launching |
| 2023 | **Web Surf Task**, *Abram et al., 2019,* |
| | Coded behavioral/MRI version in Python and remote version in JavaScript |
| 2022 | **Incentive Flanker Task**, *Norman et al., 2021,* |
| | Coded behavioral/MRI version in Python |
| 2021 - 2023 | **Two Step Decision Task**, *Foerde et al., 2021,* |
| | Coded the behavioral/MRI version in Python |
| 2020 - 2023 | **Food Choice Task**, *Steinglass et al., 2014; Foerde et al., 2015,* |
| | Created behavioral/MRI version in PsychoPy Builder and recoded the task in Python |
| 2020 | **Visual Perceptual Organization Task**, *Kurylo et al., 2018,* |
| | Created behavioral/eye-tracking version in PsychoPy Builder |

▬▬▬ SKILLS (*lists ordered by fluency)

| Languages | Mandarin, English |
|---|---|
| Scripting Languages | Python, JavaScript, bash |
| Experiments | PsychoPy, Pavlovia (PsychoJS), JavaScript, MATLAB (Psychtoolbox), Inquisit, E-prime 3.0 |
| EEG | BrainVision, EEGLab |
| MRI | fMRIPrep, INSPECTOR (MRS), freesurfer, FSL |
| EMA | PiLR, Effortless Assessment Research System (EARS) |
| Eye Tracking | Gazepoint, EyeLink |
| Statistics | Python, SPSS, R, STATA |

▬▬▬ PROFESSIONAL AFFILIATIONS

| 2023 - Present | Association for Behavioral and Cognitive Therapies (ABCT) |
|---|---|
| 2023 - Present | ABCT Neurocognitive Therapies/Translational Research (NTTR) SIG |
| 2023 - Present | Academy for Eating Disorders (AED) |
| 2022 - Present | American Psychological Association (APA) |