**Amar Ojha**

Center for Neuroscience

University of Pittsburgh

amo80@pitt.edu

**EDUCATION & TRAINING**

2019- **Center for Neuroscience**

**University of Pittsburgh**

Ph.D. Student

2019- **Center for the Neural Basis of Cognition**

**Carnegie Mellon University and University of Pittsburgh**

Graduate Certificate Training Program

2013-2017 **Bates College**

B.A. in Neuroscience

B.A. in Philosophy (Honors)

**RESEARCH EXPERIENCE**

2019-present **University of Pittsburgh**

Graduate Student Researcher

Advisors: Beatriz Luna & Cecile Ladouceur

2017-2019 **Stanford University**

MRI Research Coordinator

Advisor: Ian Gotlib

2016 **Georgetown University**

Undergraduate Research Assistant

Advisor: Adam Green

2015-2016 **Mandell Center for Multiple Sclerosis**

Part-time Research Assistant

Advisor: Elizabeth Triche

**AWARDS**

2022-2023 **Behavioral Brain (B2) Research Training Grant (T32GM142630)**

Award: $26,352 (one year of stipend support)

2021-2022 **Behavioral Brain (B2) Research Training Grant (T32GM081760)**

Award: $25,826 (one year of stipend support)

2019 **AAAS/Science Program for Excellence in Science**

2017 **Bates College Honors Program**

2017 **Bates College Dean’s List**

**PUBLICATIONS** *(9 total: 3 first, 6 co-author)*

1. **Ojha, A.**, Parr, A., Foran, W., Calabro, F., Luna, B. (accepted). “Puberty-related maturation of adolescent fronto-striatal resting-state functional connectivity implicated in inhibitory control." *Developmental Cognitive Neuroscience*.
2. **Ojha, A.**, Teresi, G.I., Slavich, G.M., Gotlib, I.H., Ho, T.C. (2022). “Social threat, fronto-cingulate-limbic morphometry, and symptom course in depressed adolescents: a longitudinal investigation.” *Psychological Medicine,* 1-1*5*.
3. Richie-Halford, A., Cieslak, M., Ai., L., Caffarra, S., Covitz, S., Franco, A.R., Karipidis, I.I., Kruper, J., Milham, M., Averlar-Pereira, B., Roy, E., Sydnor, V.J., Yeatman, J.D., **The Fibr Community Science Consortium**, Satterthwaite, T.D., Rokem, A. (2022). “An analysis-ready and quality controlled resource for pediatric brain white-matter research.” *Scientific Data*, *9*, 616.
4. van Velzen, L.S., Dauvermann, M.R., Colic, L., Villa., L.M., Savage, H.S., Toenders, Y.J., Zhu, A.H., Bright, J.K., Campos, A.I., Salminen, L., Ambrogi, S., Ayesa-Arriola, R., Banaj, N., Başgöze, Z., Bauer, J., Blair, K., Blair, R.J., Brosch, K., Cheng, Y., Colle, R., Connolly, C.G., Corruble, E., Couvy-Duchesne, B., Crespo-Facorro, B., Cullen, K.R., Dannlowski, U., Davey, C.G., Dohm, K., Fullerton, J.M., Gonul, A.S., Gotlib, I.H., Grotegerd, D., Hahn, T., Harrison, B.J., He, M., Hickie, I.B., Ho, T.C., Iorfino, F., Jansen, A., Jollant, F., Kircher, T., Klimes-Dougan, B., Klug, M., Leehr, E.J., Lippard, E.T.C., McLaughlin, K.A., Meinert, S., Miller, A.B., Mitchell, P.B., Mwangi, B., Nenadić, I., **Ojha, A.**, Overs, B.J., Pfarr, J., Piras, F., Ringwald, K.G., Roberts, G., Romer, G., Sanches, M., Sheridan, M.A., Soares, J.C., Spalletta, G., Stein, F., Teresi, G.I., Tordesillas-Gutiérrez, D., Uyar-Demir, A., van der Wee, N.J.A., van der Werff, S.J., Vermeiren R.R.J.M., Winter, A., Wu, M., Yang, T.T., Thompson, P.M., Renteria, M.E., Jahanshad, N., Blumberg, H.P., van Harmelen, A., Schmaal, L. (2022). “Structural brain alterations associated with suicidal thoughts and behaviors in young people: Results across 21 international studies from the ENIGMA suicidal thoughts and behaviors consortium.” *Molecular Psychiatry*, 1-11.
5. **Ojha, A.**, Miller, J.G., King, L.S., Davis, E.G., Humphreys, K.L., Gotlib, I.H. (2022). “Dispositional and parental empathy are differentially associated with mothers’ brain activation and toddlers’ social behavior.” *Developmental Psychobiology*, *64*, e22313.
6. Ho, T.C., Teresi, G.I., Segarra, J.R., **Ojha, A.**, Walker, J.C., Gu, M., Spielman, D.M., Sacchet, M.D., Jiang, F., Rosenberg-Hasson, Y., Maecker, H.T., Singh, M.K., Gotlib, I.H. (2021). “Higher levels of pro-inflammatory cytokines are associated with higher levels of glutamate in the anterior cingulate cortex in depressed adolescents.” *Frontiers in Psychiatry*, *12*.
7. Ho, T.C., Teresi, G.I., **Ojha, A.**, Walker, J.C., Kirshenbaum, J.S., Singh, M.K., Gotlib, I.H. (2020). “Smaller caudate gray matter volume is associated with greater implicit suicidal ideation in depressed adolescents.” *Journal of Affective Disorders*, *278*, 650-657.
8. Walker, J.C., Teresi, G.I., Weisenburger, R.L., Segarra, J.R., **Ojha, A.**, Kulla, A., Sisk, L., Gu, M., Spielman, D.M., Rosenberg-Hasson, Y., Maecker, H.T., Singh, M.K., Gotlib, I.H., Ho, T.C. (2020). “Study protocol for Teen Inflammation Glutamate Emotion Research (TIGER).” *Frontiers in Human Neuroscience*, *14*, 414.
9. Camacho, M.C., King, L.S., **Ojha, A.**, Garcia, C.M., Sisk, L.M., Cichocki, A.C., Humphreys, K.L., Gotlib, I.H. (2019). “Cerebral blood flow in 5- to 8-month-olds: Regional tissue maturity is associated with infant affect.” *Developmental Science*, *23*(5), e12928.

**MANUSCRIPTS UNDER REVIEW**

1. Ladouceur, C.D., Henry, T., Jones, N.P., **Ojha, A.**, Shirtcliff, E., Silk, J.S. (invited resubmission). “Reduced fronto-amygdala functional connectivity is associated with anxiety symptoms among adolescent girls with higher levels of pubertal testosterone.” *Developmental Cognitive Neuroscience*.
2. Belov, V., Erwin-Grabner, T., Gonul, A.S., Amod, A.R., **Ojha, A.**, Aleman, A., Dols, A., Schrantee, A., Uyar-Demir, A., Harrison, B.J., Mwangi, B., Besteher, B., Klimes-Dougan, B., Phenninx, B.W.J.H., Mueller, B.A., Zarate, C., Davey, C.G., Ching, C.R.K., Connolly, C.G., Fu, C.H.Y., Stein, D.J., Dima, D., Linden, D.E.J., Mehler, D.M.A., Clotet, E.P., Pozzi, E., Melloni, E., Benedetti, F., MacMaster, F.P., Grabe, H.J., Völzke, H., Gotlib, I.H., Soares, J.C., Evans, J.W., Sim, K., Wittfield, K., Cullen, K., Reneman L., Oudega, M.L., Wright, M.J., Portella, M.J., Sacchet, M.D., Li, M., Aghajani, M., Wu, M., Jaworska, N., Jahanshad, N., van der Wee, N.J.A., Groenewold, N., Hamilton, P.J., Sämann, P.G., Bülow, R., Poletti, S., Whittle, S., Thomopoulos, S.I., van der Werff, S.J.A., Koopowitz, S., Lancaster, T., Ho, T.C., Yang, T.T., Basgoze, Z., Veltman, D.J., Schmaal, L., Thompson, P.M., Goya-Maldonado, R. (invited resubmission) “Multi-site benchmark classification of major depressive disorder using machine learning on cortical and subcortical measures.” *Nature Mental Health*.

**CONFERENCE PRESENTATIONS** *(15 total: 9 first, 6 co-author)*

1. **Ojha, A.**, Calabro, F., Foran, W., Perica, M., Luna, B. (2022, September). Characterizing Fronto-Amygdala Circuitry Development During Adolescence: Implications for Internalizing Symptoms. Flux: Society of Developmental Cognitive Neuroscience.
2. Ho, T.C., **Ojha, A.**, Teresi, G.I., Slavich, G.M., Gotlib, I.H. (2022, September). Social Threat, Fronto-Cingulate-Limbic Morphometry, and Symptom Course in Depressed Adolescents: A Longitudinal Investigation. Flux: Society of Developmental Cognitive Neuroscience.
3. **Ojha, A.**, Parr, A.C., Foran, W., Calabro, F., Luna, B. (2022, June). Puberty-Related Maturation of Adolescent Fronto-Striatal Resting-State Functional Connectivity is Implicated in the Development of Inhibitory Control. University of Pittsburgh Psychiatry Research Day 2022.
4. Ladouceur, C.D., Brosseau, P., Henry, T., **Ojha, A.**, Diler, R. (2021, December). Alterations in the functioning of striatal subregions are associated with anhedonia as a function of striatal dopamine concentrations in adolescents with depression. American College of Neuropsychopharmacology Annual Meeting.
5. **Ojha, A.**, Parr, A.C., Foran, W., Calabro, F., Ladouceur, C.D., Luna, B. (2021, October). Characterizing puberty-related changes in fronto-striatal resting-state functional connectivity in adolescence. University of Pittsburgh Psychiatry Research (Half) Day 2021.
6. Brosseau, P., Henry, T.R., **Ojha, A.**, Diler, R., Ladouceur, C.D. (2021, October). Alterations in the Functioning of Striatal Subregions are Associated with Anhedonia as a Function of Striatal Dopamine Concentrations in Adolescents with Depression. University of Pittsburgh Research (Half) Day 2021.
7. **Ojha, A.**, Parr, A.C., Foran, W., Calabro, F., Ladouceur, C.D., Luna, B. (2021, September). Characterizing puberty-related changes in fronto-striatal resting-state functional connectivity in adolescence. Flux Society of Developmental Cognitive Neuroscience.
8. **Ojha, A.**, Miller, J.G., King, L.S., Davis, E.G., Humphreys, K.L., Gotlib, I.H. (2021, April). Dispositional and Parental Empathy are Differentially Associated with Mothers’ Brain Activation and Toddlers’ Social Behavior. Society for Research in Child Development.
9. Segarra, J.R., **Ojha, A.**, Rosenberg-Hasson, Y., Maecker, H.T., Gotlib, I.H., Ho, T.C. (2020, May). Elevated Concentrations of Inflammatory Cytokines Are Associated with Cortical Thickness of the Rostral Anterior Cingulate Cortex in Adolescents. Society of Biological Psychiatry.
10. Teresi, G., **Ojha, A.**, Walker, J.C., Singh, M.K., Gotlib, I.H., Ho, T.C. (2020, May). Dorsal Striatal Gray Matter Volume is Associated with Implicit Suicidal Ideation in Depressed Adolescents. Society of Biological Psychiatry.
11. **Ojha, A.**, Rosenberg-Hasson, Y., Maecker, H.T., Gotlib, I.H., Ho, T.C. (2019, September). Higher Concentrations of Interleukin-6 are Associated with Smaller Nucleus Accumbens Gray Matter Volume and More Severe Symptoms in Depressed Adolescents. Center for Neuroscience at the University of Pittsburgh Annual Retreat.
12. **Ojha, A.**, Walker, J.C., Ho, T.C., Gotlib, I.H. (2019, September). Experiences of Abuse and not Neglect are Associated with Decreased Amygdala Gray Matter Volumes in Depressed Adolescents. Flux Society of Developmental Cognitive Neuroscience.
13. **Ojha, A.**, Rosenberg-Hasson, Y., Maecker, H.T., Gotlib, I.H., Ho, T.C. (2019, May). Higher Concentrations of Interleukin-6 are Associated with Smaller Nucleus Accumbens Gray Matter Volume and More Severe Symptoms in Depressed Adolescents. Society of Biological Psychiatry.
14. **Ojha, A.**, Camacho, C.M., King, L.S., Humphreys, K.L., Gotlib, I.H. (2018, May). Infant Regional Cerebral Blood Flow is Associated with Maternal Sensitivity During Social Stress. Social and Affective Neuroscience Society.
15. Santos, S., **Ojha, A.**, Tuttle, L., Olson, K.M., Ruiz, J.A., Lo, A.C., Triche, E.W. (2015, September). Plan for the Development and Validation of Patient Centered Electronic Symptom Diary for Persons with MS. Saint Francis Hospital and Medical Center Annual Research Day 2015.

**REVIEWER**

*JOURNAL REVIEW*

**Ad-hoc Reviewer:** *Psychological Medicine*, *Current Research in*

*Neurobiology*

*AWARDS/GRANTS REVIEW*

**Reviewer:** 2022 APS Student Grant Competition, 2021

APS Student Grant Competition, 2020 APS Student Research Award

**PROFESSIONAL MEMBERSHIPS**

*Society for Research in Child Development*, *Flux Society for*

*Developmental Cognitive Neuroscience*, *Social and Affective Neuroscience Society*, *Society of Biological Psychiatry*, *American Association for the Advancement of Science (AAAS)*\*, *Association for Psychological Science (APS)*\*

\*awarded full membership

**RESEARCH SKILLS AND QUALIFICATIONS**

Programming & Software General: Shell scripting, R, Matlab  
 Neuroimaging: AFNI, FreeSurfer

Neuroimaging Techniques SPGR/MPRAGE, DWI, qT1, BOLD (task/rest) fMRI,

ASL, MRS (clinical + nonclinical, infant to adult

populations)

**MENTORSHIP**

2022- Natalie Phang, B.S. in Neuroscience (expected),

University of Pittsburgh

2018-2019 Julia Gillette, B.A. in Psychology (2020),   
Stanford University

2017-2019 Artenisa Kulla, B.A. in Human Biology (2020)  
Stanford University

2017-2019 Victoria Franco, B.A. in Psychology (2020),   
Stanford University

2018 Serena Wu, B.A. in Neuroscience and Behavior (2020),  
Columbia University

2018 Symona Stans, B.A. in Psychology (2020),   
Cornell University

2017-2018 Tammie Hsu, Post-Baccalaureate Research Assistant,   
Stanford University

2017-2018 Johanna Walker, Post-Baccalaureate Research Assistant,   
Stanford University

2017-2018 Melanie Ngan, Post-Baccalaureate Research Assistant,   
Stanford University

2017-2018 Neel Rao, B.S. in Computer Science (2021),   
Stanford University

**TEACHING**

2020 **Graduate Teaching Assistant**, Brain and Behavior, University of

Pittsburgh

2020 **Guest Lecturer**, Brain and Behavior (“Stress, Emotions, and

Neurodevelopment”), University of Pittsburgh

2017-2019 **Verbal Tutor**, Compass Prep Education

2017 **Redesigned Course**, Intro to Neuroscience (faculty advisor: Jason

Castro), Bates College

2017 **Writing & Teaching Assistant**, Biomedical Ethics, Bates College

2015 **Tutor**, Intro to Neuroscience, Bates College

**MISCELLANEOUS**

2016-2017 **Editor-in-Chief**, *The Bates Student*

2015-2016 **Managing** **Forum Editor**, *The Bates Student*

2014-2015 **Assistant Forum Editor**, *The Bates Student*

**REFERENCES**

**Beatriz Luna, Ph.D.**

Staunton Professor of Psychiatry and Pediatrics

Professor of Psychology

University of Pittsburgh

[lunab@upmc.edu](mailto:lunab@upmc.edu)

**Cecile Ladouceur, Ph.D.**

Associate Professor

Departments of Psychiatry and Psychology

University of Pittsburgh

[ladouceurcd@upmc.edu](mailto:ladouceurcd@upmc.edu)

**Ian H. Gotlib, Ph.D.**

Majorie Mhoon Fair Professor

Department of Psychology

Stanford Unversity

[ian.gotlib@stanford.edu](mailto:ian.gotlib@stanford.edu)

**Tiffany C. Ho, Ph.D.**

Assistant Professor

Department of Psychiatry

University of San Francisco

[tiffany.ho@ucsf.edu](mailto:tiffany.ho@ucsf.edu)