

Amar Ojha

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education

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| 2019-present | University of Pittsburgh, Pittsburgh, PA PhD in Neuroscience Advisors: Drs. Beatriz Luna & Cecile Ladouceur |
| 2019-present | Center for the Neural Basis of Cognition Carnegie Mellon University & University of Pittsburgh Graduate Certificate Training Program |
| 2013-2017 | Bates College, Lewison, ME BA in Neuroscience BA in Philosophy Advisors: Drs. Jason Castro & Susan Stark |

research experience

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| 2019-present | University of Pittsburgh, Pittsburgh, PA Graduate Student Researcher Advisors: Drs. Beatriz Luna & Cecile Ladouceur |
| 2017-2019 | Stanford University, Stanford, CA Full-time Research Coordinator Advisor: Dr. Ian Gotlib |
| 2016 | Georgetown University, Washington D.C. Part-time Research Assistant Advisor: Dr. Adam Green |
| 2015-2016 | Mandell Center for Multiple Sclerosis, Hartford, CT Part-time Research Assistant Advisor: Dr. Elizabeth Triche |

awards

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| 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

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.

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.

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.

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

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., Ambroggi, S., Ayasa-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. (submitted). "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."

Ojha, A., Teresi, G.I., Slavich, G.M., Gotlib, I.H., Ho, T.C. (submitted). "Social threat, fronto-cingulate- limbic morphometry, and symptom course in depressed adolescents: A longitudinal investigation."

Ojha, A., Miller, J.G., King, L.S., Davis, E.G., Humphreys, K.L., Gotlib, I.H. (submitted). "Dispositional and parental empathy are differentially associated with mothers' brain activation and toddlers' social behavior."

manuscripts in preparation

Ojha, A., Parr, A., Foran, W., Calabro, F., Luna, B. (in prep). "Puberty-related maturation of adolescent fronto-striatal resting-state functional connectivity implicated in inhibitory control."

Ojha, A., Jones, N.P., Versace, A., Lindstrom, R., Wilson, T.K., Gnagy, E.M., Pelham, W.E., Molina, B.S.G., Ladouceur, C.D. (in prep). "Altered functioning of cortico-amygdala circuitry during emotional interference task is associated with emotion dysregulation in adults with a childhood diagnosis of ADHD."

Ladouceur, C.D., Henry, T., Jones, N.P., **Ojha, A.**, Shirtcliff, E., Silk, J.S. (in prep). "Reduced fronto-amygdala functional connectivity is associated with anxiety symptoms among adolescent girls with higher levels of pubertal testosterone."

Ladouceur, C.D., Henry, T., Brosseau, P., **Ojha, A.**, Diler, R. (in prep). "Alterations in the functioning of striatal subregions are associated with anhedonia as a function of striatal dopamine concentrations in adolescents with depression."

Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A.R., Karipidis, I.I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, R., Sydnor, V.J., Yeatman, J., **The Fibr Community Science Consortium**, Satterthwaite, T.D., Rokem, A. "An open, analysis-ready, and quality controlled resource for pediatric white-matter research."

conference presentations

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

technical expertise

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| neuroimaging data collection | SPGR, DWI, qT1, BOLD fMRI, ASL, MRS sequences clinical and nonclinical populations from infants to adults |
| data processing and analysis | FreeSurfer, AFNI, R, bash, Python, Matlab, SPSS |

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) (awarded full membership)
Association for Psychological Science (APS) (awarded full membership)

selected service

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| ad-hoc reviewer | <i>Psychological Medicine</i> |
| reviewer | 2022 APS Student Grant Competition Reviewer 2021 APS Student Grant Competition Reviewer 2020 APS Student Research Award Reviewer |

teaching experience

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| 2020 | Graduate Teaching Assistant, University of Pittsburgh <i>Brain and Behavior</i> guest lecturer: "Stress, Emotions, & Neurodevelopment" |
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| 2017-2019 | Verbal Tutor Compass Prep Education |
| 2017 | Redesigned Course, Bates College <i>Intro to Neuroscience</i> Faculty Advisor: Dr. Jason Castro |
| 2017 | Writing and Teaching Assistant, Bates College <i>Biomedical Ethics</i> Faculty Advisor: Dr. David Cummiskey |
| 2015 | Tutor, Bates College <i>Intro to Neuroscience</i> Faculty Advisor: Dr. Jason Castro |

references

Beatriz Luna, Ph.D.

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Professor of Psychology
University of Pittsburgh

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