
BIOGRAPHICAL SKETCH

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NAME: Joshua Ryan Smith

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Assistant Professor in Psychiatry

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
University of Mississippi School of Medicine, Jackson, Mississippi	MD	08/2011	05/2015	Medicine
University of Virginia Health System, Charlottesville, Virginia	Residency in Psychiatry	06/2015	06/2019	Psychiatry
Massachusetts General Hospital, Boston, Massachusetts	Fellowship in Child and Adolescent Psychiatry	07/2019	06/2021	Child and Adolescent Psychiatry

A. Personal Statement

My clinical care and research focus is on clinical characterization and neurotherapeutic interventions for autism spectrum disorders (ASD) and related psychopathology. At present, I am developing a psychopharmacology and neuromodulatory clinic at Vanderbilt University Medical Center for children and adults with autism spectrum disorder and co-morbid psychopathology which will incorporate measurement based clinical outcomes. During my child and adolescent psychiatry fellowship I took on additional cases and research in the Lurie Center for Autism and the Alan and Lorraine Bressler Clinical and Research Program for Autism Spectrum Disorders to develop greater expertise in care for individuals with ASD. I have also been fortunate to develop mentorships at multiple institutions in the areas of autism care, clinical trials, neuromodulation, child psychiatry, and consult-liaison psychiatry. In recent years I have published multiple literature reviews, textbook chapters, and clinical perspectives. I've also had the opportunity to present at national meetings and currently serve on the American Academy of Child and Adolescent Psychiatry Psychopharmacology and Neurotherapeutics workgroup. Clinically, I attend on the consult-liaison pediatric psychiatry service at the Monroe Carell Jr Children's Hospital at Vanderbilt, the Vanderbilt Psychiatry Hospital neuromodulation team, and supervise fellows in the Vanderbilt general outpatient pediatric psychiatry clinic.

B. Positions and Honors

Positions and Employment

2021 – Present Assistant Professor of Psychiatry and Behavioral Sciences, Department of Psychiatry and Behavioral Sciences, Vanderbilt University School of Medicine

2021 – Present Assistant Professor of Psychiatry and Behavioral Sciences, Vanderbilt Kennedy Center

2020 – 2021 Chief Fellow, Harvard Medical School / Massachusetts General and McClean Hospitals

2019 – 2021 Resident, Harvard Medical School / Massachusetts General and McClean Hospitals
Clinical Fellow, Harvard Medical School

2018 – 2019 Chief Resident, University of Virginia Department of Psychiatry

2015 – 2019 Resident, University of Virginia Department of Psychiatry

Other Experience and Professional Memberships

- 2021 – Present Psychopharmacology and Neurotherapeutics Workgroup, American Academy of Child and Adolescent Psychiatry
Measurement Based Outcome Implementation Committee, Vanderbilt University Medical Center
- 2020 – 2021 Outpatient Psychiatrist, Alan and Lorraine Bressler Clinical and Research Program for Autism Spectrum Disorders, Boston, Massachusetts.
On Duty Psychiatrist, Northshore Medical Center Inpatient Psychiatry, Salem, Massachusetts.
Early Career Research Colloquium, American Academy of Child and Adolescent Psychiatry
- 2019 – 2021 On Duty Psychiatrist, Franciscan Children’s Hospital, Brighton, Massachusetts.
- 2019 – 2020 Admitting Physician, Mclean Hospital Clinical Evaluation Center, Belmont, Massachusetts
- 2019 Psychiatry Board Certification, American Board of Psychiatry and Neurology

Honors

- 2019 Scholarship Award, University of Virginia Department of Psychiatry
- 2018 Resident Teaching Award, University of Virginia Department of Psychiatry
- 2018 American Society of Clinical Psychopharmacology, Clinical Workshop Fellowship
- 2017 Medical Student Teaching Award, University of Virginia Department of Psychiatry
- 2016 Mulholland Society Teaching Award, Honorable Mention, University of Virginia Medical School

C. Contributions to Science

Currently, I am a co-investigator on an IRB approved study investigating the tolerability, efficacy, and safety of a GABAergic based pharmacologic agent in participants aged 15 to 45 years with ASD. To bridge the gap between research and clinical guidelines, I have published multiple literature reviews, textbook chapters, and clinical perspectives on measurement-based care and consult-liaison psychiatry. My long-term aspiration is to explore novel treatment approaches to ASD via imaging guided neuromodulation and psychopharmacologic interventions. I am particularly interested in clinical improvement of social/emotional relatedness symptoms in ASD as well as other core deficits.

Peer reviewed scholarship

Published

Smith JR, Hazen E, Kaminski TA, Wilens T. Literature Review: Substance Use Screening and Co-morbidity in Medically Hospitalized Youth. General Hospital Psychiatry. 2020. doi:10.1016/j.genhosppsy.2020.10.002

Becker J, **Smith JR**, Hazen E. Pediatric Consultation-Liaison Psychiatry: An Update and Review. Psychosomatics. 2020. doi:10.1016/j.psych.2020.04.015.

Buckley PJ, **Smith JR**, Mir S, Ait-Daoud N, and Bashir M. Estimating Risk for 1-Year Readmission to an Academic Acute Inpatient Psychiatric Unit. Integrative Journal of Nursing and Health. 2019.

Miller M, **Smith JR**, Norman J, Clayton AH. Expert Opinion on Existing and Developing Drugs to Treat Female Sexual Dysfunction. Expert Opinion on Emerging Drugs. 2018. doi:10.1080/14728214.2018.1527901

Smith JR, Robinson DM. A Neuropsychiatric Presentation of Multiple Sclerosis. American Journal of Psychiatry Resident’s Journal. 2018. doi.org/10.1176/appi.ajp-rj.2018.131103

Bates DM, **Smith JR**, Tschumper GS. Efficient and Accurate Methods for the Geometry Optimization of Water Clusters: Application of Analytic Gradients for the Two-Body:Many-Body QM:QM Fragmentation Method to $(\text{H}_2\text{O})_n$, $n = 3-10$. Journal of Chemical Theory and Computation. 2011. doi:10.1021/ct200176t.

Bates DM, **Smith JR**, Janowski T, Tschumper GS. Development of a 3-body:many-body Integrated Fragmentation Method for Weakly Bound Clusters and Application to Water Clusters (H₂O)(n = 3-10, 16, 17). The Journal of Chemical Physics. 2011. doi:10.1063/1.3609922

Accepted for publication

Schwartzman JM, **Smith JR**, Bettis AH. Safety Planning for Suicidality in Autism: Obstacles, Potential Solutions, and Future Directions. Pediatrics.

Articles under review

Smith JR, Green A, DiSalvo M, Ceranoglu A, Anteraper S, Croarkin P, Joshi G. Treatment Response of Transcranial Magnetic Stimulation in Intellectually Capable Youth and Young Adults with Autism Spectrum Disorder: A Systematic Review and Meta-Analysis. Autism.

Smith JR, DiSalvo M, Green A, Joshi G. Agreement between Clinical Diagnoses, Informant-, and Self-rated Social Responsiveness Scale Measures in an Autism Specialty Clinic. Journal of Autism and Developmental Disorders.

Books/textbooks for the medical or scientific community

Smith JR. (2020). 'Pediatric Bipolar Disorder', in Child and Adolescent Psychiatry, In Series "What Do I Do Now?", Thom RP, McDougale CJ (eds.), Oxford University Press, New York, NY, in press.

Smith JR. (2020). 'Pediatric Post-Traumatic Stress Disorder', in Child and Adolescent Psychiatry, In Series "What Do I Do Now?", Thom RP, McDougale CJ (eds.), Oxford University Press, New York, NY, in press.

Books/textbooks for the medical or scientific community accepted for publication

Becker J, **Smith JR**, DeSouza C, Hazen R. (2021). 'Pediatric Consultation and Liaison Psychiatry' In: *Psychiatry*. Tasman A. (eds), John Wiley & Sons.

Ad Hoc Reviewer

Journal of Autism and Developmental Disorders

D. Research Support

Ongoing Research

Vanderbilt University Kennedy Center

2021 – Present A Novel Provider-Focused Training Program to Serve Adults with Autism Spectrum Disorder

Role: Co-investigator

Advisor: Dr. Beth Malow, MD

Sponsor: Department of Defense Autism Research Program

Grant No: W81XWH-19-1-0580

PRAGMATIC Trial: Investigating the use of machine learning in antipsychotic monitoring for individuals with an autism spectrum disorder diagnosis.

Department of Developmental Medicine

Role: Co-investigator

Advisor: Dr. Angela Maxwell-Horn, MD

Sponsor: Eunice Kennedy Shriver Intellectual and Developmental Disabilities Research Center

Grant No: 1P50HD103537-01

Total Award: \$800,000

Vanderbilt University Medical Center Department of Psychiatry and Behavioral Sciences

2021 – Present Retrospective Analysis of the Efficacy of Electroconvulsive Therapy in Neurodevelopmental Disorders

Division of General Psychiatry

Role: Primary Investigator

Clinical Trial: Phase II, multicenter, randomized, double-Blind, 12-week treatment, 3-arm, parallel-group, placebo-controlled study to investigate the efficacy, safety, and

tolerability of RO7017773 in participants aged 15 to 45 years with Autism Spectrum Disorder

Division of Child and Adolescent Psychiatry

Role: Co-investigator

Advisor: Dr. Meg Benningfield, MD

Sponsor: Roche

Massachusetts General Hospital

2020 – Present Transcranial Magnetic Stimulation in Treatment of Core Autism Symptomology Investigating the Correlation Between Self and Observer -Rated Symptom Severity of Autistic Traits on the Social Responsiveness Scale Treatment of Anxiety in Individuals with Autism Spectrum Disorder: An Open Label Trial

Division of Clinical and Research Programs in Pediatric Psychopharmacology and Adult ADHD

Role: Co-investigator

Advisor: Dr. Gagan Joshi, MD

2020 – Present Neurobiological and Pharmacologic Implications of High Functioning Autism Spectrum Disorder

Division of Clinical and Research Programs in Pediatric Psychopharmacology and Adult ADHD

Role: Sub-investigator

Advisors: Drs. Gagan Joshi, MD and Joseph Biederman, MD

Completed Research

Massachusetts General Hospital

2019 – 2021 Systematic Review of Substance Use Disorder Incidence, Harm, and Screening Practices for Children and Adolescents in the General Hospital

Division of Child and Adolescent Psychiatry

Role: Primary Investigator

Advisors: Drs. Tim Wilens, MD and Eric Hazen, MD

University of Virginia

2018 – 2019 An Investigation of Substance Use and Resulting Suicidal Behavior in an Academic Hospital: A retrospective chart review and review of the literature

Department of Psychiatry

Role: Primary Investigator

Advisor: Nassima Ait-Daoud, MD

Transcranial Magnetic Stimulation in Alcohol Use Disorder Safety and Long-Term Outcome of Naloxone Administration for Opioid Overdose at the University of Virginia

Department of Psychiatry

Role: Sub-Investigator

Advisor: Nassima Ait-Daoud, MD

2016 – 2018 Factors for 12-Month Readmission at an Academic Acute Inpatient Psychiatric Unit

Department of Psychiatry

Role: Primary Investigator

Advisor: Mudhasir Bashir, MD

University of Mississippi

2008 – 2011 Exploring Models of Water Cluster Optimization

University of Mississippi Department of Chemistry

Role: Research Assistant

Advisor: Greg Tschumper, PhD