

Seth Charles Baker

Curriculum Vitae

Date of Preparation

December 21, 2021

Personal Data

Seth Charles Baker
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Phone (cell): (443) 995-9053

Born: Annapolis, Maryland, United States of America (U.S. Citizen)

Scientific/Clinical Work Experience

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| Dec 2020 – Present | <i>Data Analyst</i> , Dr. Guillermo Horga, Division of Translational Imaging, Columbia University College of Physicians and Surgeons |
| Feb 2019 – Oct 2020 | <i>Health Informatics Analyst</i> , Corey Stern, Levy Konigsberg LLP |
| Jun 2014 – Feb 2019 | <i>Research Assistant</i> , Dr. Lawrence Kegeles, Division of Translational Imaging, Columbia University College of Physicians and Surgeons |
| May 2013 – Sep 2013 | <i>Medical Scribe</i> , Emergency Department, Medstar St. Mary's Hospital |

Education

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| Jan 2015 – Jun 2018 | <i>Master of Science</i> , Department of Biochemistry, City College of New York |
| Aug 2010 – May 2014 | <i>Bachelor of Arts</i> , Department of Mathematics, St. Mary's College of Maryland |

Honors & Awards

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| 2014 | <i>Successful designation</i> , Competition for Mathematical Modeling, COMAP |
| 2013 | <i>Senior Scholar Award</i> , St. Mary's College of Maryland |
| 2010-2013 | <i>Academic Achievement Scholarship</i> , St. Mary's College of Maryland |

Educational Contributions

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| Jan 2016 – Jan 2019 | <i>Private Tutor</i> . Scope: 2-4 contact hours/week. Learners: 2-3 undergraduate students. Ad hoc student assistance. Courses covered include Pre-Calculus, Calculus I, Calculus III, Linear Algebra, General Chemistry I, and Theoretical Computer Science. |
| Sep 2013 – May 2014 | <i>Teaching Assistant</i> , Abstract Algebra I/II, St. Mary's College of Maryland, Department of Mathematics. Scope: 5 contact hours/week for 2 semesters. Learners: ~25 undergraduate students. Teaching support services and ad hoc student assistance. |

Publications

Peer-Reviewed Research Publications

1. Ashinoff, B., Singletary, N., **Baker, S.**, Horga, G. (2021). Rethinking delusions: a selective review of delusion research through a computational lens. *Schizophrenia Research*
2. **Baker, S.**, Konova, A., Dahl, N., Horga, G. (2019). A distinct inferential mechanism for delusions in schizophrenia. *Brain*
3. Cassidy, C., Zucca, F., Girgis, R., **Baker, S.**, Weinstein, J., Sharp, M., Bellei, C., Valmadre, A., Vanegas, N., Kegeles, L., Brucato, G., Kang, U., Sulzer, D., Zecca, L., Abi-Dargham, A., Horga, G. (2019). Neuromelanin-sensitive MRI as a non-invasive proxy measure of dopamine function. *Proceedings of the National Academy of the Sciences of the United States of America*
4. Girgis, R., **Baker, S.**, Mao, X., Gil, R., Javitt, D., Kantrowitz, J., Gu, M., Spielman, D., Ojeil, N., Xu, X., Abi-Dargham, A., Shungu, D., Kegeles, L. (2019). Effects of N-acetylcysteine Challenge on Cortical Glutathione and Glutamate in Schizophrenia: A Pilot *In Vivo* Proton Magnetic Resonance Spectroscopy Study. *Psychiatry Research*

Presentations at Professional Meetings

1. Rapp, A., Ashinoff, B., **Baker, S.**, Simpson, B., Horga, G. (2021). *Transdiagnostic anxiety-related increases in information sampling associated with altered valuation*. Poster presented at the 63rd annual meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico.
2. **Baker, S.**, Konova, A., Daw, N., Horga, G. (2018). *Deficient belief updating explains abnormal information seeking associated with delusions in schizophrenia*. Poster presented at the 73rd annual meeting of the Society of Biological Psychiatry, New York, NY.
3. Cassidy, C., Girgis, R., Zecca, L., Zucca, F., Bellei, C., **Baker, S.**, Weinstein, J., Benavides, C., Kang, U., Van Snellenberg, J., Sulzer, D., Abi-Dargham, A., Horga, G. (2017). *Neuromelanin-sensitive MRI: a novel, non-invasive proxy measure of dopamine function in neuropsychiatric illness*. Poster presented at the 56nd annual meeting of the American College of Neuropsychopharmacology, Long Beach, CA.
4. **Baker, S.**, Konova, A., Daw, N., Horga, G. (2017). *Deficient belief updating explains abnormal information seeking associated with delusions in schizophrenia*. Poster presented at the 47th annual meeting of the Society for Neuroscience, Washington, D.C.
5. Van Snellenberg, J., **Baker, S.**, Sanchez-Pena, J., Rosengard, R., Horga, G. (2016). *Rapid functional localization of human thalamic sensory nuclei with multiband fMRI*. Poster presented at the 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.

Scientific/Clinical Volunteer Experience

- Aug 2019 – Dec 2020 *Volunteer Program Assistant*, Dr. Brent Gibson, New York Harm Reduction Educators
- May 2013 – Aug 2013 *Laboratory Assistant*, Dr. Leah Eller, Department of Chemistry, St. Mary's College of Maryland