

Curriculum Vitae

Jessica Rast

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EDUCATION

- **Drexel University**, Philadelphia, Pennsylvania. September 2018 – September 2022
 - *Degree*: Doctor of Philosophy, Epidemiology
 - *Advisor*: Brian K. Lee
 - *Thesis*: Maternal health and antiseizure medication use during pregnancy
- **Drexel University**, Philadelphia, Pennsylvania. September 2012 – June 2014
 - *Degree*: Master of Public Health, concentration in Epidemiology
- **University of Denver**, Denver, Colorado. September 2007 – December 2010
 - *Degree*: Bachelor of Science in Biology

PROFESSIONAL AND RESEARCH EXPERIENCE

- **A.J. Drexel Autism Institute, Drexel University**, Philadelphia, PA. July 2014 - current
 - *Current position*: Assistant Research Professor. February 2024 - current
 - *Previous positions*: Research Scientist (September 2022 – February 2024); Research associate, data analyst

TEACHING EXPERIENCE

- **Drexel University**, Philadelphia, Pennsylvania. September 2021 - Current
 - *Position*: Adjunct Faculty
 - *Course*: Disability and Measurement
 - *Department*: Dornsife School of Public Health
 - *Role*: Instructor, graduate-level course
- **University of Pennsylvania**, Philadelphia, Pennsylvania. January 2021 – May 2022
 - *Position*: Lecturer
 - *Course*: Introduction to Biostatistics
 - *Department*: Perelman School of Medicine, Center for Public Health Initiatives
 - *Role*: Instructor of Stata, graduate-level course

GRANTS RECEIVED AS PRINCIPAL INVESTIGATOR

1. National Institute of Mental Health R03MH132034. 8/15/23 – 8/14/25. Mental Health Hospitalizations and Follow-Up Care in Autistic Adults. Role: PI. Total amount: \$100,000
2. Health Resources and Services Administration R40MC37542-01-00 for Maternal and Child Health Field-Initiated Research Program. 7/1/20 – 6/30/21. The Role of the Medical Home in Accessing Mental Health Care in Children with Special Health Care Needs. Role: PI. Total amount: \$99,838

PUBLICATIONS

1. Anderson, K. A., Roux, A. M., **Rast, J. E.**, Garfield, T., & Shea, L. (2024). Low-income households of children with autism and the economic safety net. *Academic Pediatrics*, 24(2), 258-266.
2. Ahlqvist, V. H., Dardani, C., Madley-Dowd, P., Forbes, H., **Rast, J.**, Zhong, C., ... & Rai, D. (2024). Psychiatric comorbidities in epilepsy: population co-occurrence, genetic correlations and causal effects. *General Psychiatry*, 37(1).
3. Anderson, K. A., Radey, M., **Rast, J. E.**, Roux, A. M., & Shea, L. (2024). The Economic Impacts of COVID-19 on Autistic Children and Their Families. *Journal of Autism and Developmental Disorders*, 1-12.
4. **Rast, J. E.**, Tao, S., Schott, W., Shea, L.L., Brodtkin, E.S., Kerns, C.M., Leonard, C.E., Murray, M.J., and Lee, B.K. (2023). Psychotropic Medication Use in Children and Youth with Autism Enrolled in Medicaid. *Journal of Autism and Developmental Disorders*. 1-9.
5. Roux, A.M, Miller, K.K., Tao, S., **Rast, J.E.**, Ventimiglia, J., Shattuck, P.T., Shea, L.L (2023). Unrealized Cross-System Opportunities to Improve Employment and Employment-Related Services Among Autistic Individuals. *The Millbank Quarterly*.
6. Madley-Dowd, P. C., **Rast, J. E.**, Ahlqvist, V. H., Zhong, C. K., Martin, F., Davies, N. M., ... & Forbes, H. J. (2023). Trends and patterns of antiseizure medication prescribing during pregnancy between 1995 and 2018 in the United Kingdom: a cohort study. *BJOG: An International Journal of Obstetrics and Gynaecology*.
7. **Rast, J. E.**, Garfield, T., Ezeh, T. H., & Anderson, K. A. (2023). Mental health, race and ethnicity, and medical home in children with special health care needs. *Children's Health Care*, 1-15.
8. Anderson, K. A., Roux, A. M., **Rast, J. E.**, Garfield, T., & Shea, L. (2023). Low-income households of children with autism and the economic safety net. *Academic Pediatrics*.
9. **Rast, J. E.**, Roux, A. M., Connor, G., Ezeh, T. H., Shea, L., Turchi, R. M., & Shattuck, P. T. (2023). The Medical Home and Mental Health Services in Children and Youth with Special Health Care Needs. *Maternal and Child Health Journal*, 1-10.
10. Ahlqvist, V. H., Madley-Dowd, P., Ly, A., **Rast, J.**, Lundberg, M., Jónsson-Bachmann, E., ... & Lee, B. K. (2023). Bias amplification of unobserved confounding in pharmacoepidemiological studies using indication-based sampling: there is no free lunch in restricting the sample to those with a particular drug-indication. *Pharmacoepidemiology and Drug Safety*. 32(8): 886- 897.
11. **Rast, J.E.**, Fernandes, S.J., Schott, W., Shea,L.L. (2023). Disparities by Race and Ethnicity in Inpatient Hospitalizations Among Autistic Adults. *Journal of Autism and Developmental Disorders*. <https://doi.org/10.1007/s10803-023-05911-0>.
12. Roux, A. M., Shea, L. L., Steinberg, H., **Rast, J. E.**, Anderson, K. A., Hotez, E., ... & Shattuck, P. T. (2023). Evidence from the Autism Transitions Research Project (2017–2022): Capstone review and services research recommendations. *Autism Research*. 16(3), 480-496.
13. Ezeh, T. H., Lee, B. K., & **Rast, J. E.** (2022). The Medical Home and Use of Mental and Non-mental Specialty Services Among Children with Autism Spectrum Disorder (ASD). *Journal of Autism and Developmental Disorders*, 1-11.
14. Anderson, K.A., Roux, A.M., Steinberg, H., Garfield, T., **Rast, J.E.**, Shattuck, P.T., and Shea, L.L. National Autism Indicators Report: The Intersection of Autism, Health, Poverty and Racial Inequity. Philadelphia: Policy and Analytics Center and Life Course Outcomes Research Program, A.J. Drexel Autism Institute, Drexel University, April 2022.
15. **Rast, J.E.**, Roux, A.M., Fernandes, S.J., D’Silva, V., & Shea, L.L. (2022). Hospital Inpatient Stays for Autistic Youth and Youth with Other Disabilities. *Pediatrics*, 149(Supplement 4).

16. Roux, A.M., **Rast, J.E.**, & Shea, L.L. (2022). Family Perceptions of Health Care Access for Autistic Young Adults Receiving Disability Services. *Pediatrics*, 149(Supplement 4).
17. Graham Holmes, L., **Rast, J.E.**, Roux, A.M., & Rothman, E.F. (2022). Reproductive Health and Substance Use Education for Autistic Youth. *Pediatrics*, 149(Supplement 4).
18. **Rast, J.E.**, Garfield, T., Roux, A.M., Koffer Miller, K.H., Hund, L.M., Tao, S., Kerns, C.M., Rosenau, K.A., Hotez, E., Anderson, K.A., Shattuck, P.T., and Shea, L.L. National Autism Indicators Report: Mental Health. Philadelphia, PA: Life Course Outcomes Program, A.J. Drexel Autism Institute, Drexel University, August 2021.
19. **Rast, J.**, Newschaffer, C., Turchi, R., Plum, J.. Health Service and Functional Measures of Benefit of a Medical Home in Children with Autism. *Matern Child Health J* (2021). 25(7), 1156-1163. <https://doi.org/10.1007/s10995-021-03150-2>
20. Anderson, K.A., Hemmeter, J., Wittenburg, D., Baller, J., Roux, A.M., **Rast, J.E.**, & Shattuck, P.T. (2021). National and state trends in autistic adult supplemental security income awardees: 2005-2019. *Journal of Autism and Developmental Disorders*.
21. **Rast, J. E.**, Anderson, K. A., Roux, A. M., & Shattuck, P. T. (2021). Medication Use in Youth with Autism and Attention-Deficit/Hyperactivity Disorder. *Academic Pediatrics*. 21 (2), 272-279
22. **Rast, J. E.**, Roux, A. M., Anderson, K. A., Croen, L. A., Kuo, A. A., Shea, L. L., and Shattuck, P. T. National Autism Indicators Report: Health and autism. Philadelphia, PA: Life Course Outcomes Program, A.J. Drexel Autism Institute, Drexel University, November 2020.
23. Kerns, C. M., **Rast, J. E.**, & Shattuck, P. T. (2020). Prevalence and Correlates of Caregiver-Reported Mental Health Conditions in Youth With Autism Spectrum Disorder in the United States. *The Journal of Clinical Psychiatry*, 82(1).
24. Roux, A. M., **Rast, J. E.**, Garfield, T., Anderson, K. A., & Shattuck, P. T. (2020). Prevalence and Correlates of Work Experiences Among High School Students on the Autism Spectrum. *Intellectual and Developmental Disabilities*, 58(4), 273-287.
25. Anderson, K. A., Hemmeter, J., **Rast, J. E.**, Roux, A. M., & Shattuck, P. T. (2020). Trends in Supplemental Security Income Payments to Adults With Autism. *Psychiatric Services*, 71(6), 602-607.
26. Shattuck, P. T., Garfield, T., Roux, A. M., **Rast, J. E.**, Anderson, K., Hassrick, E. M., & Kuo, A. (2020). Services for Adults With Autism Spectrum Disorder: a Systems Perspective. *Current Psychiatry Reports*, 22(3), 13.
27. Zablotsky, B., **Rast, J.**, Bramlett, M. D., & Shattuck, P. T. (2020). Health Care Transition Planning Among Youth with ASD and Other Mental, Behavioral, and Developmental Disorders. *Maternal and Child Health Journal*, 1-9.
28. **Rast, J. E.**, Roux, A. M., & Shattuck, P. T. (2019). Use of Vocational Rehabilitation Supports for Postsecondary Education Among Transition-Age Youth on the Autism Spectrum. *Journal of autism and developmental disorders*, 1-10.
29. Roux, AM, **Rast, J.E.**, Nye-Lengerman, K, Purtle, J, Lello, A, & Shattuck, PT (2019). Identifying patterns of state vocational rehabilitation performance in serving transition-age youth on the autism spectrum. *Autism in Adulthood*, 1(2), 101-111.
30. Shattuck, Paul T., **Rast, Jessica E.**, Roux, Anne M., Anderson, Kristy A., Benevides, Teal, Garfield, Tamara, McGhee Hassrick, Elizabeth, and Kuo, Alice. National Autism Indicators Report: High School Students on the Autism Spectrum. Philadelphia, PA: Life Course Outcomes Program, A.J. Drexel Autism Institute, Drexel University, 2018.

31. Roux, A. M., Anderson, K. A., **Rast, J. E.**, Nord, D., & Shattuck, P. T. (2018). Vocational rehabilitation experiences of transition-age youth with autism spectrum disorder across states: Prioritizing modifiable factors for research. *Journal of Vocational Rehabilitation*. Epub ahead of print. doi:10.3233/JVR-180976.
32. Roux, A. M., **Rast, J. E.**, & Shattuck, P. T. (2018). State-level variation in Vocational Rehabilitation service use and related outcomes among transition-age youth on the autism spectrum. *J Autism Dev Disord*. doi: 10.1007/s10803-018-3793-5.
33. **Rast, J. E.**, Shattuck, P. T., Roux, A. M., Anderson, K. A., & Kuo, A. (2018). The medical home and health care transition for youth with autism. *Pediatrics*, 141(Supplement 4), S328-S334.
34. Roux, A. M., **Rast, J. E.**, Shattuck, P. T. , & Anderson, K. A. (2017). National Autism Indicators Report: Developmental Disabilities
35. Roux, A. M., **Rast, J. E.**, Shattuck, P. T. , & Anderson, K. A. (2016). National Autism Indicators Report: Vocational Rehabilitation
36. Rava, J., Shattuck, P., **Rast, J.**, & Roux, A. (2016). The Prevalence and Correlates of Involvement in the Criminal Justice System Among Youth on the Autism Spectrum. *Journal of Autism and Developmental Disorders*, 1-7.
37. Roux, A. M., Shattuck, P. T., **Rast, J.E.**, Rava, J. A., & Anderson, K. A. (2015). National Autism Indicators Report: Transition into Young Adulthood.
38. Roux, A. M., Shattuck, P. T., **Rast, J.E.**, Rava, J. A., Edwards, A. D., Wei, X., ... & Yu, J. W. (2015). Characteristics of two-year college students on the autism spectrum and their support services experiences. *Autism research and treatment*, 2015.
39. Rast, J.; **Rast, J.E.** (2014). Neighbor to family: supporting sibling groups in foster care. *Families in Society: The Journal of Contemporary Social Services*, 95(2)83-91. doi: 10.1606/1044-3894.2014.95.11

PRESENTATIONS

1. Poster Presentation: Rast, JE, Bromberg, J, Shea, LL, Chesnokova, AE. Birth Morbidity and Readmissions in Autistic People and People with Intellectual and Developmental Disabilities. Presented at the Society for Maternal and Fetal Medicine Conference; February 2024; Washington, DC.
2. AIR-P Presents: The National Autism Indicators Report on COVID-19 and Health. September 19, 2023. Presented through AUCD Webinars.
3. Research Symposium Keynote: Pregnancy And Obstetric Care In People With Intellectual And Developmental Disabilities. University of California LEND and MCH Research Symposium. June 9, 2023.
4. Conference Panel Chair: Obstetric Care and Pregnancy Experiences Among Autistic People. Presented at INSAR; May 2023; Stockholm, Sweden.
5. Conference Presentation: Health During Pregnancy and Delivery in Autistic People in Sweden. Presented at INSAR; May 2023; Stockholm, Sweden.
6. Poster Presentation: Rast, JE, Tao, S., Schott, W., Shea, L.L., Lee, B.K. Psychotropic Medication Use in Autistic Children Enrolled in Medicaid. Presented at INSAR; May 2022; Hybrid Virtual Conference.
7. Webinar: Rast, JE, Shattuck, PT. "Engaging Research Innovations & Challenges (EnRICH): How to Develop a Successful Research Career." Health Resources and Services Administration (HRSA),

Maternal and Child Health Bureau (MCHB), Office of Epidemiology and Research (OER), Division of Research (DoR). March 24, 2022.

8. Conference Presentation: Rast, JE, Roux, AM, Shea, LL, Shattuck. PT. The Medical Home, Mental Health Care, and Unmet Service Needs in Children and Youth with Special Health Care Needs. Presented at APHA; November 2021; Denver, CO.
9. Invited presentation: Benevides, T., Rast, J., Shea, L., Shore, S. Priorities and Potential for Autism and Mental Health Research. Presented to the NIMH/OARC Interagency Autism Coordinating Full Committee (IACC); October 14, 2021.
10. Webinar: Rast, JE. "Making data talk: connecting people with data to inform decisions, programs, and policy." University of California Los Angeles, Los Angeles, California. Fielding School of Public Health. October 2021.
11. Poster Presentation: Rast, JE, Ezech, TH, Shea, LL, Turchi, RM, Shattuck, PT. The Medical Home and Mental Health Care in Children with Special Health Care needs. Presented at SER; June 2021; Virtual Conference.
12. Conference Presentation: Rast, JE, Roux, AM, Fernandes, S.J., D'Silva, V., Shea, L.L. National Inpatient Hospitalizations in Autistic Youth in the U.S. Presented at INSAR; May 2021; Virtual Conference.
13. Conference Presentation: Rast, JE, Graham Holmes, L., Roux, A.M., Rothman, E.F.. School-Based Substance Use Education: Inclusion of Youth on the Autism Spectrum in a Representative U.S. Sample. Presented at INSAR; May 2021; Virtual Conference.
14. Symposium Webinar: "Health and Health Care in Autistic Children and Adults." First Place Leadership Institute Symposium Webinar. April 7, 2021.
15. Webinar: "Health and Health Care in Autistic Children and Adults." Organization for Autism Research Webinar Series. April 1, 2021.
16. Webinar: AIR-P Presents: The National Autism Indicators Report on Health and Health Care. January 21, 2021. Presented through AUCD Webinars.
17. Poster Presentation: Rast, JE, Roux, AM, Anderson, KA, Shattuck, PT. Psychotropic Medication Prescriptions in Children with ASD. Presented at INSAR; May 2020; Seattle, WA. Virtual Conference.
18. Poster Presentation: Rast, JE, Roux, AM, Anderson, KA, Shattuck, PT. Racial Disparities in the Use of Mental Health Services and Psychotropic Medication Among Children with ASD. Presented at APHA; November 3, 2019; Philadelphia, PA.
19. Poster Presentation: Rast, JE, Shattuck, PT. The National Autism Data Center at Drexel University: Population-level Data to Inform Policy. Presented at: AUCD Autism CARES Meeting; July 18, 2019; Washington, DC.
20. Poster Presentation: Rast, JE, Roux, AM, Anderson, KA, Shattuck, PT. Prevalence and Correlates of Medication Use in Youth with Autism and ADHD. Poster presented at: INSAR; May 1, 2019; Montreal, Canada.
21. Poster presentation: Rast, JE, Roux, AM, Shattuck, PT. Prevalence and Correlates of Employment and Postsecondary Education in Transition-Age Youth with Autism in Vocational Rehabilitation. Poster presented at: IMFAR; May 10, 2018; Rotterdam, Netherlands.
22. Poster presentation: Rast, JE, Roux, AM, Anderson, KA, Shattuck, PT. Community and facility-based employment of adults on the Autism spectrum. Poster presented at: IMFAR; May 11, 2017; San Francisco, CA.
23. Poster presentation: Rast, JE, Shattuck, PT, Anderson, KA. Vocational Rehabilitation Service Use Among Youth and Young Adults with Autism: Comparing Students and Non-Students. Poster presented at: IMFAR; May 13, 2016; Baltimore, MD.

24. Poster presentation: Rast, JE, Shattuck, PT, Anderson, KA. Parental expectations in postsecondary education attendance in young adults with autism. Poster presented at: the Society for the Study of Emerging Adulthood Conference; October 15, 2015; Miami, FL..
25. Poster presentation: J. Rast, C. J. Newschaffer, R. Turchi, J. Plumb and P. T. Shattuck, Medical home use in transition age youth on the autism spectrum: medical home as a factor in better health care transition outcomes. Poster presented at: IMFAR; May 16, 2015; Salt Lake City, UT.

PROFESSIONAL ACTIVITIES AND AWARDS

1. Listed as a “40 under 40” rising autism researcher in 2022 by Spectrum <https://spectrumnews-web-assets.s3.amazonaws.com/wp-content/uploads/2022/12/15165514/Chronicle-of-a-field-retold-autism-science-in-profile.pdf>
2. Honorary Appointment at the University of Bristol. March 2021-current
3. The study Use of Vocational Rehabilitation Supports for Postsecondary Education Among Transition-Age Youth on the Autism Spectrum (Rast *et al.*, 2019) was listed in the top 20 most impactful autism studies of 2019 by the Interagency Autism Coordinating Committee
4. Working group member for the 2016-2017 Interagency Autism Coordinating Committee Strategic Plan for Autism Spectrum Disorder
5. The study National Autism Indicators Report: Transition into Young Adulthood (Roux *et al.*, 2015) was listed in the top 20 most impactful autism studies of 2015 by the Interagency Autism Coordinating Committee