

Stanford



Sophia Miryam Schüssler-Fiorenza Rose

Instructor, Genetics

Bio

ACADEMIC APPOINTMENTS

- Instructor, Genetics

HONORS AND AWARDS

- Best Young Investigator Original Research Paper, PM&R: the Journal of Injury, Function and Rehabilitation (2015)
- Resident Award for Exemplary Scholarly Activity, Thomas Jefferson University Department of Rehabilitation Medicine (June 2013)
- Trauma and Public Policy Award for Abstract Adverse Childhood Experiences & Disability in US Adults, The Trauma Center at JRI 23rd International Trauma Conference, Boston, MA (June 8, 2012)
- Certificate of Achievement for Scholarly Activity, Thomas Jefferson University Department of Rehabilitation Medicine, (June 2010, 2011, 2012, 2013)
- Certificate of Recognition for Medical Student Teaching, Thomas Jefferson University Department of Rehabilitation Medicine (June 2010, 2011, 2013)
- Wisconsin Surgical Society Award for Best Clinical Presentation 2003, Wisconsin Surgical Society (2003)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Physical Medicine & Rehabilitation , Spinal Cord Injury (2014)
- Board Certification, American Board of Physical Medicine & Rehabilitation , Physical Medicine & Rehabilitation (2014)
- Fellowship, Stanford School of Medicine/Palo Alto VA Health Care System , Spinal Cord Injury (2014)
- Residency, Thomas Jefferson University , Physical Medicine & Rehabilitation (2013)
- Doctor of Philosophy, University of Wisconsin - Madison , Population Health Sciences (2009)
- Intern & Resident, University of Wisconsin Hospital & Clinics , General Surgery (2005)
- AB, Princeton University (1996)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Spinal Cord Injury (Fellowship Program)

Publications

PUBLICATIONS

- **Dynamic lipidome alterations associated with human health, disease and ageing.** *Nature metabolism*
Hornburg, D., Wu, S., Moqri, M., Zhou, X., Contrefois, K., Bararpour, N., Traber, G. M., Su, B., Metwally, A. A., Avina, M., Zhou, W., Ubellacker, J. M., Mishra, et al
2023

- **Multi-omics approaches in psychoneuroimmunology and health research: Conceptual considerations and methodological recommendations.** *Brain, behavior, and immunity*
Mengelkoch, S., Lautman, Z., Alley, J. C., Roos, L. G., Ehlert, B., Moriarity, D. P., Lancaster, S., Miryam Schussler-Fiorenza Rose, S., Snyder, M. P., Slavich, G. M.
2023
- **Precision environmental health monitoring by longitudinal exposome and multi-omics profiling.** *Genome research*
Gao, P., Shen, X., Zhang, X., Jiang, C., Zhang, S., Zhou, X., Schüssler-Fiorenza Rose, S. M., Snyder, M.
2022
- **Adverse childhood experiences, diabetes and associated conditions, preventive care practices and healthcare access: A population-based study.** *Preventive medicine*
Rose, S. M., Slavich, G. M., Snyder, M. P.
2022: 107044
- **Wearable sensors enable personalized predictions of clinical laboratory measurements.** *Nature medicine*
Dunn, J., Kidzinski, L., Runge, R., Witt, D., Hicks, J. L., Schussler-Fiorenza Rose, S. M., Li, X., Bahmani, A., Delp, S. L., Hastie, T., Snyder, M. P.
2021
- **Depression, health comorbidities, cognitive symptoms and their functional impact: Not just a geriatric problem.** *Journal of psychiatric research*
Schüssler-Fiorenza Rose, S. M., Bott, N. T., Heinemeyer, E. E., Hantke, N. C., Gould, C. E., Hirst, R. B., Jordan, J. T., Beaudreau, S. A., O'Hara, R.
2021; 139: 185-192
- **The 5-HTTLPR Long, not Short, Allele Predicts Two-year Longitudinal Increases in Cortisol and Declines in Verbal Memory in Older Adults.** *International journal of geriatric psychiatry*
Hirst, R. B., Jordan, J. T., Miryam Schussler-Fiorenza Rose, S., Schneider, L., Kawai, M., Gould, C., Anker, L., Chick, C. F., Beaudreau, S., Hallmayer, J., O'Hara, R.
2020
- **Molecular Choreography of Acute Exercise.** *Cell*
Contrepois, K. n., Wu, S. n., Moneghetti, K. J., Hornburg, D. n., Ahadi, S. n., Tsai, M. S., Metwally, A. A., Wei, E. n., Lee-McMullen, B. n., Quijada, J. V., Chen, S. n., Christle, J. W., Ellenberger, et al
2020; 181 (5): 1112–30.e16
- **Personal aging markers and ageotypes revealed by deep longitudinal profiling.** *Nature medicine*
Ahadi, S., Zhou, W., Schussler-Fiorenza Rose, S. M., Sailani, M. R., Contrepois, K., Avina, M., Ashland, M., Brunet, A., Snyder, M.
2020; 26 (1): 83–90
- **Deep longitudinal multiomics profiling reveals two biological seasonal patterns in California.** *Nature communications*
Sailani, M. R., Metwally, A. A., Zhou, W. n., Rose, S. M., Ahadi, S. n., Contrepois, K. n., Mishra, T. n., Zhang, M. J., Kidzi#ski, #. n., Chu, T. J., Snyder, M. P.
2020; 11 (1): 4933
- **Longitudinal multi-omics of host-microbe dynamics in prediabetes.** *Nature*
Zhou, W., Sailani, M. R., Contrepois, K., Zhou, Y., Ahadi, S., Leopold, S. R., Zhang, M. J., Rao, V., Avina, M., Mishra, T., Johnson, J., Lee-McMullen, B., Chen, et al
2019; 569 (7758): 663–71
- **MULTIOMICS PROFILING OF LIFE COURSE STRESS AND ADVERSITY**
Rose, S., Contrepois, K., Slavich, G. M., Snyder, M. P.
LIPPINCOTT WILLIAMS & WILKINS.2019: A70–A71
- **A longitudinal big data approach for precision health.** *Nature medicine*
Schüssler-Fiorenza Rose, S. M., Contrepois, K. n., Moneghetti, K. J., Zhou, W. n., Mishra, T. n., Mataraso, S. n., Dagan-Rosenfeld, O. n., Ganz, A. B., Dunn, J. n., Hornburg, D. n., Rego, S. n., Perelman, D. n., Ahadi, et al
2019; 25 (5): 792–804
- **Factors Associated with Supportive Care Service Use Among California Alzheimer's Disease Patients and Their Caregivers.** *Journal of Alzheimer's disease : JAD*
Newkirk, L. A., Dao, V. L., Jordan, J. T., Alving, L. I., Davies, H. D., Hewett, L. n., Beaudreau, S. A., Schneider, L. D., Gould, C. E., Chick, C. F., Hirst, R. B., Rose, S. M., Anker, et al
2019

- **Subjective but Not Objective Sleep is Associated with Subsyndromal Anxiety and Depression in Community-Dwelling Older Adults.** *The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry*
Gould, C. E., Karna, R., Jordan, J., Kawai, M., Hirst, R., Hantke, N., Pirog, S., Cotto, I., Schussler-Fiorenza Rose, S. M., Beaudreau, S. A., O'Hara, R.
2018
- **Potentially Avoidable Hospitalizations among People at Different Activity of Daily Living Limitation Stages** *HEALTH SERVICES RESEARCH*
Schussler-Fiorenza Rose, S. M., Stineman, M. G., Pan, Q., Bogner, H., Kurichi, J. E., Streim, J. E., Xie, D.
2017; 52 (1): 132-155
- **Digital Health: Tracking Physiomes and Activity Using Wearable Biosensors Reveals Useful Health-Related Information.** *PLoS biology*
Li, X., Dunn, J., Salins, D., Zhou, G., Zhou, W., Schüssler-Fiorenza Rose, S. M., Perelman, D., Colbert, E., Runge, R., Rego, S., Sonecha, R., Datta, S., McLaughlin, et al
2017; 15 (1)
- **Extraction and analysis of signatures from the Gene Expression Omnibus by the crowd** *NATURE COMMUNICATIONS*
Wang, Z., Monteiro, C. D., Jagodnik, K. M., Fernandez, N. F., Gundersen, G. W., Rouillard, A. D., Jenkins, S. L., Feldmann, A. S., Hu, K. S., McDermott, M. G., Duan, Q., Clark, N. R., Jones, et al
2016; 7
- **Adverse Childhood Experiences, Support, and the Perception of Ability to Work in Adults with Disability.** *PloS one*
Schüssler-Fiorenza Rose, S. M., Eslinger, J. G., Zimmerman, L., Scaccia, J., Lai, B. S., Lewis, C., Alisic, E.
2016; 11 (7): e0157726
- **Understanding non-performance reports for instrumental activity of daily living items in population analyses: a cross sectional study** *BMC GERIATRICS*
Stineman, M. G., Xie, D., Pan, Q., Kurichi, J. E., Saliba, D., Rose, S. M., Streim, J. E.
2016; 16
- **Adverse Childhood Experiences, Support, and the Perception of Ability to Work in Adults with Disability** *PLOS ONE*
Schüssler-Fiorenza Rose, S. M., Eslinger, J. G., Zimmerman, L., Scaccia, J., Lai, B. S., Lewis, C., Alisic, E.
2016
- **Identifying neuropsychiatric disorders in the Medicare Current Beneficiary Survey: the benefits of combining health survey and claims data** *BMC Health Services Research*
Schussler-Fiorenza Rose, S. M., Xie, D., Streim, J. E., Pan, Q., Kwong, P. L., Stineman, M. G.
2016; 16 (537)
- **Increasing Discussion Rates of Incontinence in Primary Care: A Randomized Controlled Trial.** *Journal of women's health (2002)*
Schüssler-Fiorenza Rose, S. M., Gangnon, R. E., Chewing, B., Wald, A.
2015; 24 (11): 940-9
- **Traumatic brain injury in US Veterans with traumatic spinal cord injury** *Journal of Rehabilitation Research and Development*
Creasey, G. H., Latev, Z. C., Schüssler-Fiorenza Rose, S. M., Rose, J.
2015; 52 (6): 669-676
- **Increasing Discussion Rates of Incontinence in Primary Care: A Randomized Controlled Trial** *Journal of Women's Health*
Schüssler-Fiorenza Rose, S. M., Gangnon, R. F., Chewing, B., Wald, A.
2015; 24 (11): 940-949
- **Activity Limitation Stages Empirically Derived for Activities of Daily Living (ADL) and Instrumental ADL in the U.S. Adult Community-Dwelling Medicare Population.** *PM & R : the journal of injury, function, and rehabilitation*
Stineman, M. G., Streim, J. E., Pan, Q., Kurichi, J. E., Schüssler-Fiorenza Rose, S. M., Xie, D.
2014; 6 (11): 976-87
- **Adverse childhood experiences and disability in u.s. Adults.** *PM & R : the journal of injury, function, and rehabilitation*
Schüssler-Fiorenza Rose, S. M., Xie, D., Stineman, M.
2014; 6 (8): 670-680
- **Comparison of complex versus simple activity of daily living staging: validation of simple stages.** *Archives of physical medicine and rehabilitation*
Schüssler-Fiorenza, C. M., Xie, D., Pan, Q., Stineman, M. G.
2013; 94 (7): 1320-1327

- **Adverse Childhood Experiences, Disability and Health-Risk Behaviors** *Population Health Matters (Formerly Health Policy Newsletter)*
Schüssler-Fiorenza Rose, S.
2013; 26 (3): Available at: <http://jdc.jefferson.edu/hpn/vol26/iss3/12>
- **Current perspectives: fecal incontinence in older adults** *Aging Health*
Schüssler-Fiorenza, C., Wald, A.
2007; 3 (6): 751-765
- **The surgical management of Graves' disease** *JOURNAL OF SURGICAL RESEARCH*
Schussler-Fiorenza, C. M., Bruns, C. M., Chen, H.
2006; 133 (2): 207-214
- **Satisfaction with Care** *Understanding Health Outcomes Research*
Smith, M., Schüssler-Fiorenza, C. M., Rockwood, T.
Jones and Bartlett.2006; 2nd: 185–216
- **Clinical risk score correlates with yield of PET scan in patients with colorectal hepatic metastases - Discussion** *JOURNAL OF GASTROINTESTINAL SURGERY*
Fischer, J., Schussler-Fiorenza, C., Eagon, J., Schmidt, C.
2004; 8 (2): 157-158
- **Clinical risk score correlates with yield of PET scan in patients with colorectal hepatic metastases** *44th Annual Meeting of the Society-of-the-Alimentary-Tract*
Schussler-Fiorenza, C. M., Mahvi, D. M., Niederhuber, J., Rikkens, L. F., Weber, S. M.
SPRINGER.2004: 150–57