

# CURRICULUM VITAE

## NIDHI KOHLI, PH.D.

Department of Educational Psychology  
 Quantitative Methods in Education Program  
 email: [nkohli@umn.edu](mailto:nkohli@umn.edu)  
 office: 612-624-9001  
 fax: 612-626-8123

166 Education Sciences Building  
 56 East River Road  
 Minneapolis, MN 55455

### IDENTIFYING INFORMATION

#### Academic Rank

Tenured Full Professor in the Department of Educational Psychology

#### Education

<b>Degree</b>	<b>Institution</b>	<b>Degree Duration</b>
Ph.D.	University of Maryland, College Park Measurement, Statistics & Evaluation	08/2006 – 08/2011
M.Ed.	University of Nevada, Reno Counseling and Educational Psychology	01/2005 – 05/2006
B.Ed.	Panjab University, India Dev Samaj College of Education Education [Specialization in Teaching of Economics, and Accounts]	07/2003 – 06/2004
B.Com.	Panjab University, India Guru Gobind Singh College for Women Commerce	07/1999 – 06/2002

#### Positions

University of Minnesota, Twin Cities

Full Professor with Tenure	06/2022 –
Associate Professor with Tenure	06/2017 – 05/2022
Tenure-Track Assistant Professor	08/2012 – 05/2017

Palo Alto Medical Foundation Research Institute

Postdoctoral Research Fellow

06/2011 – 06/2012

### **Research Interests**

Statistical models for longitudinal data (random effects models, latent growth curve models, and growth mixture models), Monte Carlo simulation, Model fit evaluation, and Development and validation of new scales/instruments

### **Membership in Professional Organizations**

American Educational Research Association (AERA) [2009 – ]  
Division D – Measurement and Research Methodology  
Educational Statisticians Special Interest Group (SIG)  
Structural Equation Modeling SIG

Psychometric Society [2014 – ]

### **HONORS AND AWARDS**

8. Royal and Virginia Anderson Professor of Quantitative Methods in Education, University of Minnesota [2023 – 2026].
7. American Guidance Service, Inc. and John P. Yackel Professorship in Educational Assessment and Measurement, University of Minnesota [2020 – 2023].
6. Graduate Student Paper Award, Educational Statisticians SIG, American Educational Research Association [2011].
5. Dissertation Fellowship Award, Department of Measurement, Statistics & Evaluation, University of Maryland [2011].
4. Jacob Goldhaber Travel Grant Award, the Graduate School, University of Maryland [2010].
3. Graduate Dean's Fellowship, College of Education, University of Maryland [2006 – 2008].
2. Certificate of Merit for ranking first in B.Com. part-III examinations, Guru Gobind Singh College for Women [2003].
1. Certificate of Merit for ranking second in B.Com. part-II examinations, Guru Gobind Singh College for Women [2002].

### **RESEARCH, SCHOLARSHIP, AND CREATIVE WORK**

#### **Grants and Contracts**

## External Sources

### *Current*

- 14. Title:** Evaluating the effects of reproductive health training on provider behavior  
**Source:** National Health Institute (NIH)/National Institute of Child Health and Human Development (NICHD)  
**Role:** Co-Investigator  
**MPIs:** B. R. Simon Rosser, PhD, and Dickson Ally Mkoka, PhD  
**Period:** 09/20/23-09/30/28 (Award # 1R01 HD092655-01A1)  
**Total Award:** \$2,688,829 (Direct: \$2,023,781; Indirect: \$665,048)  
**Effort:** 15% FTE for years 1–5
- 13. Title:** Reliability and Validity of Dynamic and Processing-based Assessments for Language in Diverse Bilingual School-age Children  
**Source:** National Health Institute (NIH)/National Institute on Deafness and Other Communication Disorders (NIDCD)  
**Role:** Co-Investigator  
**PI:** Kerry Danahy Ebert, PhD  
**Period:** 05/01/2023– 04/30/2028 (Award # 1R01DC019895-01A1)  
**Total Award:** \$2,000,000 (Direct: \$1,327,890; Indirect: \$672,170)  
**Effort:** 10% FTE for 5 years
- 12. Title:** Training the long-term services and supports dementia care workforce in provision of care to sexual and gender minority residents  
**Source:** National Health Institute (NIH)/National Institute on Aging (NIA)  
**Role:** Co-Investigator  
**PIs:** B. R. Simon Rosser PhD, MPH and Tetyana Shippee, PhD  
**Period:** 09/15/2022 – 05/31/2026 (Award # 1R01AG075734-01A1)  
**Total Award:** \$3,627,102 (Direct: \$2,445,634; Indirect: \$1,181,468)  
**Effort:** 15% FTE for year 1, and 10% FTE for years 2–4
- 11. Title:** Efficacy of Early Language Comprehension Individualized Instruction (ELCII)  
**Source:** Institute for Educational Sciences (IES) — Goal 3, Reading & Writing  
**Role:** Co-Principal Investigator  
**PI:** Panayiota Kendeou, PhD  
**Period:** 08/01/2022– 07/31/2027 (Award # R305A220107)  
**Total Award:** \$3,799,740 (Direct: \$2,545,192; Indirect: \$1,254,548)  
**Effort:** 10% FTE for 5 years

### *Completed*

- 10. Title:** Restore: Improving sexual outcomes of gay and bisexual prostate cancer survivors  
**Source:** National Health Institute (NIH)/National Cancer Institute (NCI)  
**Role:** Co-Investigator

**PI:** B. R. Simon Rosser, PhD

**Period:** 08/01/2017 – 07/31/2024 (Award # R01 CA218657-01)

**Total Award:** \$3,121,487 for 5 years

**Effort:** 15% FTE for 5 years, 5% FTE for year 6, and 3% FTE for year 7

- 9. Title:** Development and neural mechanisms of repetitive behavior and sensory responsivity in autism  
**Source:** National Health Institute (NIH)/National Institute of Mental Health (NIMH)  
**Role:** Co-Investigator  
**PI:** Jason J. Wolff, PhD  
**Period:** 08/24/2018 – 05/31/2024 (Award # R01 MH116961-01)  
**Total Award:** \$2,206,684  
**Effort:** 15% FTE for years 3–5
- 8. Title:** Effectiveness of sexual health training for health professional students in Tanzania  
**Source:** National Health Institute (NIH)/National Institute of Child Health and Human Development (NICHD)  
**Role:** Co-Investigator  
**MPIs:** B. R. Simon Rosser, PhD, and Dickson Ally Mkoka, PhD  
**Period:** 09/15/2018 – 09/15/2023 (Award # 1R01 HD092655-01A1)  
**Total Award:** \$2,688,829  
**Effort:** 15% FTE
- 7. Title:** HPV Oropharyngeal cancer and screening in Gay and Bisexual Men  
**Source:** National Health Institute (NIH)/National Cancer Institute (NCI)  
**Role:** Co-Investigator  
**PI:** Michael W. Ross PhD Med Dr DSc  
**Period:** 09/01/2020 – 05/31/2023 (Award # R01 CA253244-01)  
**Total Award:** \$1,052,467  
**Effort:** 5% FTE
- 6. Title:** Training the long-term support and services workforce in sexual and gender minority competent provision of care  
**Source:** National Health Institute (NIH)/National Institute on Aging (NIA)  
**Role:** Co-Investigator  
**PIs:** B. R. Simon Rosser PhD, MPH and Tetyana Shippee, PhD  
**Period:** 10/11/2021 – 08/31/2022 (Award # R56 AG070748)  
**Total Award:** \$715,290  
**Effort:** 10% FTE
- 5. Title:** Early Language Comprehension Individualized Instruction (ELCII)  
**Source:** Institute for Educational Sciences (IES) — Goal 2, Reading & Writing  
**Role:** Co-Investigator  
**PI:** Panayiota Kendeou, PhD  
**Period:** 08/29/2017 – 05/31/2022 (Award # R305A170242)

**Total Award:** \$1,391,227  
**Effort:** 2.5% FTE

- 4. Title:** Neighborhood and parent variables affect low-income preschool age child physical activity  
**Source:** National Heart, Lung, and Blood Institute (NHLBI)  
**Role:** Co-Investigator  
**PI:** Simone A. French, PhD  
**Period:** 03/15/2019 - 02/28/2021 (Award # R21HL144559-01)  
**Total Award:** \$326000  
**Effort:** 5% FTE
  
- 3. Title:** Algebra instruction at community colleges: An exploration of its relationship with student success  
**Source:** National Science Foundation (NSF)  
**Role:** Co-Principal Investigator  
**PI:** Laura Watkins, PhD  
**Period:** 05/15/16 - 04/30/20 (Award # 1561436)  
**Total Award:** \$2,370,836  
**Effort:** 10% FTE
  
- 2. Title:** Understanding the effects of prostate cancer on gay and bisexual men  
**Source:** National Cancer Institute (NCI)  
**Role:** Co-Investigator  
**PI:** B. R. Simon Rosser, PhD  
**Period:** 09/2014 – 08/2016 (Award # R21 CA182041-01A1)  
**Total Award:** \$330,600  
**Effort:** 5% FTE
  
- 1. Title:** Decision rule research project: Curriculum-based measurement in reading  
**Source:** Institute for Educational Sciences (IES)  
**Role:** Key Personnel  
**PI:** Theodore J. Christ, PhD  
**Period:** 07/01/2013 – 06/30/2017 (Award # R324A130161)  
**Total Award:** \$1.6 million  
**Effort:** 10% FTE

### University Sources

- 4. Title:** Modeling of mathematics course-taking behavior using High School Longitudinal Study (HSL:09) data: A piecewise problem  
**Source:** U of M, College of Education & Human Development  
**Role:** PI  
**Period:** 01/2017 – 05/2017  
**Award:** Single semester research leave

- 3. Title:** Ramp-Up to Readiness  
**Source:** U of M College Readiness Consortium  
**Role:** Co-Investigator  
**PI:** Julie Sweitzer, Executive Director, College Readiness Consortium  
**Period:** 08/2015 – 05/2017  
**Support:** 10% FTE
- 2. Title:** Observational ratings of child feeding practices among preschoolers  
**Source:** U of M School of Nursing  
**Role:** Co-Investigator  
**PI:** Jayne Fulkerson, Ph.D.  
**Period:** 7/2014 – 5/2015  
**Support:** 10% FTE
- 1. Title:** Mathematics development & learning disabilities: Trajectories & predictors  
**Source:** U of M Grant-in-Aid of Research, Artistry & Scholarship Program  
**Role:** PI  
**Period:** 07/2013 – 01/2015  
**Award:** \$24,411

### **Publications**

\* = mentored or supervised student author  
 An underline = senior or corresponding author

### **Articles in Refereed Journals**

69. \*Zhang, Z., **Kohli, N.**, & Lock, E. F. (accepted for publication). Bayesian (non)linear random effects mediation models: Evaluating the impact of omitting confounders. *Psychological Methods*.
68. Rosser, B. R. S., **Kohli, N.**, \*Bates, A. J., Talley, K. M. C., Wright, M., \*Polter, E. J., Wheldon, C. W., Haggart, R., Dickstein, D. R., Ross, M. W., Zhang, Z., West, W., & Konety, B. R. (accepted for publication). Does sexual rehabilitation work for gay and bisexual prostate cancer patients? Acceptability, feasibility and efficacy results from the Restore-2 randomized controlled trial. *Journal of Cancer Survivorship*.  
<https://doi.org/10.1007/s11764-024-01672-6>
67. Lukumay, G. G., Mushy, S. E., Mgopa, L. R., Mkoka, D. A., Massae, A. F., Mwakawanga, D. L., Rosser, B. R. S., **Kohli, N.**, \*Rohloff, C. T., Ross, M. W., & Trent, M. (2024). Healthcare professional students' skills in sexual health communication and history taking: inter-rater reliability of standardized patients and faculty ratings in dar es Salaam, tanzania-a cross-sectional study. *BMC Medical Education*, 24, e627. <https://doi.org/10.1186/s12909-024-05607-8>

66. Mushy, S. E., Mkoka, D. A., Lukumay, G. G., Massae, A. F., \*Rohloff, C. T., Mgopa, L. R., Mwakawanga, D. L., **Kohli, N.**, Ross, M. W., Mkonyi, E., Trent, M., Athuman, K., Kulasingam, S., & Rosser, B. R. S. (2024). The need for and acceptability of a cancer training course for medical and nursing students in Tanzania: a converged mixed methods study. *BMC Medical Education*, 24, e614. <https://doi.org/10.1186/s12909-024-05497-w>
65. Davison, M. L., Chung, S., **Kohli, N.**, & Davenport, E. C. (2024). A multidimensional model to facilitate within person comparison of attributes. *Psychometrika*, 89, 296–316.
64. \*Rohloff, C. T., **Kohli, N.**, & Lock, E. F. (2024). Identifiability and estimability of Bayesian linear and nonlinear crossed random effects models. *British Journal of Mathematical & Statistical Psychology*, 77(2), 375–394.
63. \*Choi, S., McMaster, K., **Kohli, N.**, Shanahan, E., Birinci, S., An, Jechun., Duesenberg, M., & Lembke, E. (2024). Longitudinal effects of data-based instructional changes for students with intensive learning need: A piecewise linear-linear mixed effects modeling approach. *Journal of Educational Psychology*, 116(4), 608–628.
62. \*Peralta, Y., **Kohli, N.**, Kendeou, P., Davison, M. L., & Lock, E. F. (2024). Modeling the interrelation of reading and mathematics achievement trajectories: Is their development intertwined? *Reading and Writing*, 37, 1267–1287.
61. \*Lamm, R., Mesa, V., **Kohli, N.**, Duranczyk, I., Watkins, L., & Ström, A. (2024). Construct validation of an instrument that assesses quality of instruction in community college algebra. *Community College Journal of Research and Practice*, 48(5), 283–296.
60. Gunderson, J., Symons, F., **Kohli, N.**, Grzadzinski, R., Burrows, C., Estes, A. M., Dager, S., Piven, J., & Wolff, J. (2024). Longitudinal analysis of sensory responsivity from infancy to school age in children at high and low familial likelihood for autism. *Journal of Child Psychology and Psychiatry (JCPP) Advances*, 4(2), e12227. DOI: <https://doi.org/10.1002/jcv2.12227>
59. \*Bennis, S. L., \*Rohloff, C. T., \*Zhang, Z., **Kohli, N.**, Zoschke, N., Rosser, B. R. S., Nyitray, A. G., Wilkerson, J. M., Stull, C., Flash, C., Khariwala, S. S., & Ross, M. W. (2024). Sexual behavior and perceived risk for oropharyngeal cancer among men who have sex with men: A psychometric scale validation. *Sexually Transmitted Diseases*, 51(4), 289–294.
58. Ko, I., Mesa, V., Duranczyk, I., Herbst, P., **Kohli, N.**, Ström, A., & Watkins, L. (2024). Understanding the characteristics of mathematical content knowledge for teaching algebra in high schools and community colleges. *International Journal of Mathematical Education in Science and Technology*, 55(3), 590–614.
57. Mwakawanga, D. L., Massae, A. F., **Kohli, N.**, Lukumay, G. G., \*Rohloff, C. T., Mushy, S. E., Mgopa, L. R., Mkoka, D. A., Mkonyi, E., Trent, M., Ross, M. W., Rosser, B. R. S., & Connor, J. (2024). The need for and acceptability of a curriculum to train nursing and

- medical students in the sexual healthcare of clients with female genital mutilation/cutting in Tanzania. *BMC Women's Health*, 24(1), 198. DOI: <https://doi.org/10.1186/s12905-024-03034-x>
56. \*Zhang, Z., \*Rohloff, C. T., & **Kohli, N.** (2023). Model fit indices for random effects models: Translating model fit ideas from latent growth curve models. *Structural Equation Modeling: A Multidisciplinary Journal*, 30(5), 822–830.
  55. \*Rohloff, C. T., **Kohli, N.**, & Chung, S. (2023). The impact of functional form complexity on model overfitting for nonlinear mixed-effects models. *Multivariate Behavioral Research*, 58(4), 723–742. *This paper was awarded the Best Graduate Student Paper Award by the American Educational Research Association (AERA) Educational Statisticians Special Interest Group (SIG).*
  54. \*Zhang, Z., \*Rohloff, C. T., & **Kohli, N.** (2023). Commentary on “Obtaining interpretable parameters from reparameterized longitudinal models: Transformation matrices between growth factors in two parameter-spaces”. *Journal of Educational and Behavioral Statistics*, 48(2), 262–268.
  53. Loth, K. A., Ji, Z., **Kohli, N.**, Fisher, J. O., & Fulkerson, J. A. (2023). Parents of preschoolers use multiple strategies to feed their children: Findings from an observational video pilot study. *Appetite*, 187, 106615. DOI: <https://doi.org/10.1016/j.appet.2023.106615>
  52. Mkonyi, E., Silla, B. N., Rohloff, C. T., Lukumay, G. G., Ross, M. W., **Kohli, N.**, Mgopa, L. R., Massae, A. F., Mohammed, I. S., Mushy, S. E., Mwakawanga, D. L., Rosser, B.R.S., & Trent, M. (2023). Not lost in translation: The use of standardized patients technology among health professional students in Tanzania. *East African Journal of Health and Science*, 6(1), DOI: <https://doi.org/10.37284/2707-3920>
  51. Wheldon, C. W., Bates, A., Polter, E. J., Rosser, B. R. S., Kapoor, A., Talley, K. M. C., Haggart, R., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Ross, M. W., West, W., & Wright, M. (2023). Unrecognized sexual dysfunction in gay and bisexual men after prostate cancer treatment: The antecedents and impact of anodyspareunia. *Journal of Sexual Medicine*, 20(4), 515–524.
  50. Talley, K. M. C., Polter, E., Rosser, B. R. S., Wheldon, C. W., Haggart, R., Konety, B. R., Wright, M., Mitteldorf, D., Ross, M. W., West, W., & **Kohli, N.** (2023). Urinary and bowel symptoms among gay and bisexual prostate cancer survivors and their associations with quality of life. *Urologic Nursing*, 43(1), 14–24.
  49. Ross, M. W., Rosser, B. R. S., Polter, E. J., Bates, A. J., Wheldon, C. W., Haggart, R., West, W., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Talley, K. M. C., & Wright, M. (2023). Discrimination of sexual and gender minority patients in prostate cancer treatment: Results from the *Restore-1* study. *Stigma and Health*, 8(1), 85–92.



48. \*Peralta, Y., **Kohli, N.**, Lock, E. F., and Davison, M. L. (2022). Bayesian modeling of associations in bivariate piecewise linear mixed-effects models. *Psychological Methods*, 27(1), 44–64.
47. Rosser, B. R. S., Wright, M., Hoefler, C. J., \*Polter, E. J., **Kohli, N.**, Wheldon, C. W., Haggart, R. Talley, K. M. C., Mitteldorf, D., Kilian, G., Konety, B. R., Ross, M. W., & West, W. (2022). Recruiting an underserved, difficult to reach population into a cancer trial: Strategies from the *Restore-2* Rehabilitation Trial for gay and bisexual prostate cancer patients. *Clinical Trials*, 19(3), 239–250.
46. Wheldon, C., \*Polter, E. J., Rosser, B. R. S., Kapoor, A., Talley, K. M. C., Haggart, R., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Ross, M. W., West, W., & Wright, M. (2022). Pain and loss of pleasure in receptive anal sex for gay and bisexual men following prostate cancer treatment: Results from the *Restore-1* study. *The Journal of Sex Research*, 59(7), 826–833.
45. Wells-Prado, D. R., Ross, M. W., Rosser, B. R. S., Polter, E. J., Capistrant, B. D., Haggart, R., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Talley, K. M. C., West, W., & Wheldon, C. (2022). Prostate cancer disclosure and sexual orientation: Understanding outness to healthcare providers as a situational or consistent phenomenon. *Patient Education and Counseling*, 105(7), 2033–2037.
44. Rosser, B. R. S., Mkoka, D. A., \*Rohloff, C. T., Mgopa L. R., Ross, M. W., Lukumay, G. G., Mohammed, I., Massae, A. F., Mkonyi, E., Mushy, S. E., Mwakawanga, D. L., **Kohli, N.**, Trent, M., Wadley, & J. Bonilla, Z. E. (2022). Tailoring a sexual health curriculum to the sexual health challenges seen by midwifery, nursing and medical providers and students in Tanzania. *African Journal of Primary Health Care & Family Medicine*, 14(1), a3434. DOI: <https://doi.org/10.4102/phcfm.v14i1.3434>
43. Wheldon, C., \*Polter, E. J., Rosser, B. R. S., \*Bates A. J., Haggart, R., Wright, M., Mitteldorf, D., Ross, M. W., Konety, B. R., **Kohli, N.**, Talley, K. M. C., West, W., & Tatum, A. K. (2022). Prevalence and risk factors for sexually transmitted infections in gay and bisexual prostate cancer survivors: Results from the *Restore-2* Study. *Frontiers in Oncology*, 12, a832508. DOI: <https://doi.org/10.3389/fonc.2022.832508>
42. \*Bates A. J., Rosser, B. R. S., \*Polter, E. J., Wheldon, C., Talley, K. M. C., Haggart, R., Wright, M., Mitteldorf, D., West, W., Ross, M. W., Konety, B. R., & **Kohli, N.** (2022) Racial/ethnic differences in health-related quality of life among gay and bisexual prostate cancer survivors. *Frontiers in Oncology*, 12, a833197. DOI: <https://doi.org/10.3389/fonc.2022.833197>
41. Rosser, B. R. S., \*Polter, E. J., Talley, K. M. C., Wheldon, C., Haggart, R., Wright, M., West, W., Mitteldorf, D., Ross, M. W., Konety, B. R., & **Kohli, N.** (2022) Health disparities of sexual minority patients following prostate cancer treatment: Results from the *Restore-2* Study. *Frontiers in Oncology*, 12, a812117. DOI: <https://dx.doi.org/10.3389%2Ffonc.2022.812117>

40. \*Polter, E. J., **Kohli, N.**, Rosser, B. R.S., Talley, K. M. C., Wheldon, C., Hoefler, C. J., Wright, M. M., Haggart, R., Mitteldorf, D., Kilian, G., Konety, B. R., Ross, M. W., & West, W. (2022). Creation and psychometric validation of the sexual minorities and prostate cancer scale (SMACS) in sexual minority patients-The Restore-2 Study. *The Journal of Sexual Medicine*, 19(3), 529–540.
39. Davison, M. L., Davenport, E. C., **Kohli, N.**, Kang, Y., & Park, K. (2021). Addressing quantitative and qualitative hypotheses using regression models with equality restrictions and predictors measured in common units. *Multivariate Behavioral Research*, 56(1), 86–100.
38. Haggart, R., \*Polter, E. J., Ross, M. W., **Kohli, N.**, Konety, B. R., Mitteldorf, D., West, W., & Rosser, B. R.S. (2021). Comorbidity prevalence and impact on quality of life in gay and bisexual men following prostate cancer treatment. *Sexual Medicine*, 9(6), a100439.
37. \*Pattanaik, S., John, M. T., **Kohli, N.**, Davison, M. L., Chung, S., Self, K., Naik, A., & Flynn, P. M. (2021). Item and scale properties of the Oral Health Literacy Adults Questionnaire assessed by item response theory. *Journal of Public Health Dentistry*, 81(3), 214–223.
36. Rosser, B. R. S., Rider, G. N., Kapoor, A., Talley, K. M. C., Haggart, R., **Kohli, N.**, Konety, B. R., Mitteldorf, D., \*Polter, E. J., Ross, M. W., West, W., Wheldon, C., & \*Wright, M. M. (2021). Every urologist and oncologist should know about treating sexual and gender minority prostate cancer patients: translating research findings into clinical practice. *Translational Andrology and Urology*, 10(7), 3208–3225.
35. French, S. A., Fan, Y., Kunin-Batson, A. S., Berge, J. M., **Kohli, N.**, \*Lamm, R. Z., & Sherwood, N. E. (2021). Three-year changes in low-income children's physical activity: Prospective influence of neighborhood environment and parent supportive behaviors. *The Journal of Pediatrics: X*, 6, a100066. DOI: <https://doi.org/10.1016/j.ympdx.2021.100066>
34. Rosser, B. R. S., **Kohli, N.**, \*Polter, E. J., \*Leshner, L., Capistrant, B. D., Konety, B. R., Mitteldorf, D., West, W., Dewitt, J., & Kilian, G. (2020). The sexual functioning of gay and bisexual men following prostate cancer treatment: Results from the *Restore* study. *Archives of Sexual Behavior*, 49(5), 1589–1600.
33. \*Peralta, Y., **Kohli, N.**, Ström, A., Duranczyk, I., Mesa, V., & Watkins, L. (2020). A psychometric analysis of the Algebra and Precalculus Concept Readiness assessment. *Journal of Psychoeducational Assessment*, 38(3), 321–336.
32. \*Lee, J., Kubik, M. Y., Fulkerson, J. A., **Kohli, N.**, & Garwick, A. W. (2020). The identification of family social environment typologies using latent class analysis. *Journal of Family Nursing*, 26(1), 26–37.

31. **Kohli, N.**, & Sullivan, A. L. (2019). Linear-Linear piecewise growth mixture models with unknown random knots: A primer for School Psychology. *Journal of School Psychology*, 73, 89–100.
30. **Kohli, N.**, \*Peralta, Y., & \*Bose, M. (2019). Piecewise random-effects modeling software programs. *Structural Equation Modeling: A Multidisciplinary Journal*, 26(1), 156–164.
29. \*Polter, E. J., Wheldon, C. W., Rosser, B. R. S., **Kohli, N.**, Capistrant, B. D., Kapoor, A., Konety, B. R., Mitteldorf, D., Ross, M. W., Talley, K. M. C., Terveen, L., West, W., & Wright, M. M. (2019). Health-related quality of life by human immunodeficiency virus status in a cross-sectional survey of gay and bisexual prostate cancer survivors. *Psycho-Oncology*, 28(12), 2351–2357.
28. Rosser, B. R. S., Hunt, S. L., Capistrant, B. D., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Ross, M. W., Talley, K. M. C., & West, W. (2019). Understanding prostate cancer in gay, bisexual, and other men who have sex with men and transgender women: A review of the literature. *Current Sexual Health Reports*, 11(4), 430–441.
27. \*Bose, M., **Kohli, N.**, \*Newell, K., & Christ, T. J. (2019). Response to Intervention: Random-effects mixture models to identify responsive and non-responsive subpopulations of students. *Learning and Individual Differences*, 71, 23–30.
26. Harwell, M. R., **Kohli, N.**, & \*Peralta, Y. (2018). A survey of reporting practices of computer simulation studies in statistical research. *American Statistician*, 72(4), 321–327.
25. \*Peralta, Y., **Kohli, N.**, & Wang, C. (2018). A primer on distributional assumptions and model linearity in repeated measures data analysis. *The Quantitative Methods for Psychology*, 14(3), 199–217. DOI: [doi:10.20982/tqmp.14.3.p199](https://doi.org/10.20982/tqmp.14.3.p199)
24. Lock, E. F., **Kohli, N.**, & \*Bose, M. (2018). Detecting multiple random changepoints in Bayesian piecewise growth mixture models. *Psychometrika*, 83(3), 733–750.
23. **Kohli, N.**, \*Peralta, Y., \*Zopluoglu, C., & Davison, M. L. (2018). A note on estimating single-class piecewise mixed effect models with unknown change points. *International Journal of Behavioral Development—Method & Measures Section*, 42(5), 518–524.
22. Self, K., John, M. T., Prodduturu, S., **Kohli, N.**, Naik, A., & Flynn, P. (2018). Influence of socioeconomic and oral health status on acceptability of dental therapists' oral health care. *Journal of Health Care for the Poor and Underserved*, 29(3), 1135–1152.
21. Capistrant, B. D., \*Leshner, L., **Kohli, N.**, Merengwa, E., Konety, B. R., Mitteldorf, D., West, W., & Rosser, B. R. S. (2018). Social support and health related quality of life among gay and bisexual men with prostate cancer. *Oncology Nursing Forum*, 45(4), 439–455.
20. DeWitt, J., Capistrant, B., **Kohli, N.**, Rosser, B. R. S., Miteldorf, D., Merengwa, E., & West, W. (2018). Addressing participant validity in a small internet health survey (the

- restore study): Protocol and recommendations for survey response validation. *JMIR Research Protocols*, 7(4), e96.
19. Ross, M. W., Leshabari, S., Rosser, B.R.S., Trent, M., Mgopa, L., Wadley, J. **Kohli, N.**, Agardh, A. (2018). Evaluation of an assessment instrument for a sexual health curriculum for nurses and midwifery students in Tanzania: The Sexual Health Education Professionals Scale (SHEPS). *Applied Nursing Research*, 40, 152–156.
  18. Rosser, B. R. S., Konety, B. R., Mitteldorf, D., **Kohli, N.**, \*Leshner, L, West, W., Capistrant, B. D., Dewit, J., Merengwa, E., & Kilian, G. (2018). What gay and bisexual men treated for prostate cancer are offered and attempt as sexual rehabilitation for prostate cancer: Results from the *Restore* study. *Urology Practice*, 5(3), 187–191.
  17. Rosser, B. R. S., **Kohli, N.**, \*Leshner, L, Capistrant, B. D., Dewit, J., Kilian, G., Konety, B. R., Merengwa, E., Mitteldorf, D., & West, W. (2018). What gay and bisexual prostate cancer patients want in a sexual rehabilitation program for prostate cancer: Results of the *Restore* needs assessment. *Urology Practice*, 5(3), 192–197.
  16. Harwell, M. R., **Kohli, N.**, & \*Peralta, Y. (2017). Experimental design and data analysis in computer simulation studies in the behavioral sciences. *Journal of Modern Applied Statistical Methods*, 16(2), 3–28.
  15. Sullivan, A. L., **Kohli, N.**, Farnsworth, E. M., Jones, L., & Sadeh, S. (2017). Longitudinal models of reading achievement of students with and without learning disabilities. *School Psychology Quarterly*, 32(3), 336–349.
  14. **Kohli, N.**, Harring, J. R., & \*Zopluoglu, C. (2016). A finite mixture of nonlinear random coefficient models for continuous repeated measures data. *Psychometrika*, 81(3), 851–880.
  13. Wang, C., **Kohli, N.**, & \*Henn, L. (2016). A second-order longitudinal model for binary outcomes: Item response theory versus factor analytic framework. *Structural Equation Modeling: A Multidisciplinary Journal*, 23(3), 455–465.
  12. Flynn, P. M., John, M. T., Naik, A., **Kohli, N.**, VanWormer, J. J., & Self, K. D. (2016). Psychometric properties of the English version of the Oral Health Literacy Adults Questionnaire. *Community Dental Health*, 33(4), 274–280.
  11. \*Naik, A., John, M. T., **Kohli, N.**, Flynn, P. M., & Self, K. D. (2016). Validation of the English-language version of 5-item Oral Health Impact Profile. *Journal of Prosthodontic Research*, 60(2), 85–91.
  10. Rosser, B. R. S., Merengwa, E., Capistrant, B. D., Iantaffi, A., Killian, G., **Kohli, N.**, Konety, B. R., Mitteldorf, D., West, W. (2016). Prostate cancer in gay, bisexual, and other men who have sex with men: A review. *LGBT Health*, 3(1), 32–41.

9. **Kohli, N.**, Hughes, J., Wang, C., \*Zopluoglu, C., & Davison, M. L. (2015). Fitting a linear-linear piecewise growth mixture model with unknown knots: A comparison of two common approaches to inference. *Psychological Methods*, 20(2), 259–275.
8. **Kohli, N.**, Koran, J., & \*Henn, L. (2015). Relationships among classical test theory and item response theory frameworks via factor analytic models. *Educational and Psychological Measurement*, 75(3), 389–405.
7. **Kohli, N.**, Sullivan, A. L., Sadeh, S. S., & \*Zopluoglu, C. (2015). Longitudinal mathematics development of students with learning disabilities and students without disabilities: A comparison of linear, quadratic, and piecewise mixed effects models. *Journal of School Psychology*, 53(2), 105–120.
6. \*Zopluoglu, C., Haring, J. R., & **Kohli, N.** (2014). FitPMM: An R routine to fit finite mixture of piecewise mixed-effect models with unknown random knots. *Applied Psychological Measurement*, 38(7), 583–584.
5. Tai-Seale, M., Wilson, C., Panattoni, L., **Kohli, N.**, Stone, A., Hung, D., & Chung, S. (2014). Leveraging electronic health records to develop measurements for processes of care. *Health Services Research*, 49(2), 628–644.
4. **Kohli, N.**, Haring, J. R., & Hancock, G. R. (2013). Piecewise linear-linear latent growth mixture models with unknown knots. *Educational and Psychological Measurement*, 73(6), 935–955.
3. **Kohli, N.**, & Haring, J. R. (2013). Modeling growth in latent variables using a piecewise function. *Multivariate Behavioral Research*, 48(3), 370–397. *This paper was awarded the Best Graduate Student Paper Award by the American Educational Research Association (AERA) Educational Statisticians Special Interest Group (SIG).*
2. Haring, J. R., **Kohli, N.**, Silverman, R. D., & Speece, D. L. (2012). A second-order conditionally linear mixed effects model with observed and latent variable covariates. *Structural Equation Modeling: A Multidisciplinary Journal*, 19, 118–136.
1. Schwartz, J. P., Kelley, F. A., & **Kohli, N.** (2012). The development and initial validation of the Dating Attitudes Inventory: A measure of the gender context of dating violence in men. *Journal of Interpersonal Violence*, 27(10), 1959–1986.

### Book Chapters

1. Rosser, B. R. S., Hunt, S., Capistrant, B. D., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Ross, M. W., Talley, K. M. C., & West, W. (2018). Understanding prostate cancer in gay, bisexual, and other men who have sex with men and transgender women: A review of the literature. In J. Ussher, J. Perz, & Rosser, B. R. S. (Eds.) *Gay and Bisexual Men Living with Prostate Cancer: From Diagnosis to Recovery* (pp. 12–37). New York, NY: Harrington Park Press.

## Book Reviews

2. **Kohli, N.** (2017). Review of *Longitudinal Structural Equation Modeling: A comprehensive introduction*, by Jason T. Newsom. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(1), 154–155.
1. Koran, J., **Kohli, N.**, & Rupp, A. A. (2009). Review of *Improving testing: Applying process tools and techniques to assure quality*, by C. L. Wild & R. Ramaswamy (Eds.) *Journal of Educational Measurement*, 46, 366–369.

## Refereed Conference Abstracts and Proceedings

6. Talley, K. M. C., Wright, M., Bates, A., **Kohli, N.**, Konety, B. R., Mitteldorf, D. Ross, M. W., West, W., Wheldon, C. W., & Rosser, B. R. S. (2022). Abstract (409): Change in urinary incontinence over two years among sexual minority prostate cancer survivors enrolled in an online rehabilitation program for urinary and sexual dysfunction. *Journal of Continence*, 2(Suppl 2), 100383. DOI: <https://doi.org/10.1016/j.cont.2022.100383>
5. Watkins, L., \*Lamm, R., **Kohli, N.**, Kimani, P., & the AI@CC Research group (2019). Using student and instructor characteristics to predict student success in algebra courses. In Jankvist, U. T., Van den Heuvel-Panhuizen, M., & Veldhuis, M. (Eds.). *Proceedings of the Eleventh Congress of the European Society for Research in Mathematics Education (CERME11)* (pp. 4145–4152). Utrecht, the Netherlands: Freudenthal Group & Freudenthal Institute, Utrecht University and ERME.
4. Kimani, P., Watkins, L., \*Lamm, R., Duranczyk, I., Mesa, V., **Kohli, N.**, & Ström, A. (2019). Exploring relationships between number of hours of professional development, mathematics knowledge for teaching, and instructor's ability to make sense of procedures. In Graven, M., Venkat, H., Essien, A. & Vale, P. (Eds.). (2019) *Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education (Vol 2)*. (pp. 464–471) Pretoria, South Africa: PME.
3. Duranczyk, I., Mesa, V., **Kohli, N.**, Ström, A., & Watkins, L. (2017). Measuring gains in knowledge within algebra instruction at community colleges: Assessing the efficacy of the Algebra Pre-Calculus Readiness (APCR) test. In T. Dooley & G. Gueudet (Eds.), *Proceedings of the Tenth Congress of the European Society for Research in Mathematics Education (CERME10)* (pp. 2296–2297). Dublin, Ireland: DCU Institute of Education and ERME.
2. Capistrant, B. D., \*Leshner, L., **Kohli, N.**, Merengwa, E., West, W., Mitteldorf, D., & Rosser, B. R. S. (2016). Abstract: Social support, caregiving and cancer outcomes among gay and bisexual men with prostate cancer. *The Gerontologist*, 56(Suppl 3), 459.
1. Tai-Seale, M., Dohan, D., Chung, S., Hung, D., Frosch, D., Wilson, C., McCuiston, M., **Kohli, N.**, Stults, C., Luft, H. (2012). Abstract: Transforming primary care in 3 NCQA-certified PCMHs. *Clinical Medicine & Research*, 10(3), 171.

## Software Development

1. \*Rohloff, C. T., \*Lamm, R., \*Peralta, Y., **Kohli, N.**, & Lock, E.F. (2024). *BEND: Bayesian Estimation of Nonlinear Data (BEND)*. <https://CRAN.R-project.org/package=BEND>

## Conferences, and Talks

### Invited Talks

9. **Kohli, N.** (2023, July). *Piecewise Random-Effects Models for Segmented Longitudinal Trends*. International Meeting of Psychometric Society (IMPS), University of Maryland, College Park, MD.
8. **Kohli, N.** (2023, June). *Piecewise Random-Effects Models for Segmented Longitudinal Trends*. International Indian Statistical Association (IISA) Conference, Colorado School of Mines, Golden, CO.
7. \*Rohloff, C. T., **Kohli, N.**, & Chung S. (2022, March). *The Impact of Functional Form Complexity on Model Overfitting for Nonlinear Longitudinal Data*. CanAm Online Symposium Series in Educational Research Methods (with the Universities of Alberta, Iowa, Minnesota, Maryland, and Nebraska), Department of Educational Psychology, University of Minnesota, Minneapolis, MN.
6. **Kohli, N.** (2016, October). *Statistical modeling of typical & individual differences over time – A case for piecewise growth models*. Institute of Child Development (ICD), University of Minnesota, Minneapolis, MN.
5. **Kohli, N.** (2016, May). *Statistical modeling of typical & individual differences over time – A case for piecewise growth models*. The methods track of the annual convention of the Association for Psychological Science (APS), Chicago, IL.
4. **Kohli, N.** (2016, February). *A finite mixture of nonlinear random coefficient models for continuous repeated measures data*. Department of Statistics, University of Minnesota, Minneapolis, MN.
3. **Kohli, N.** (2015, December). *Fitting a linear-linear piecewise growth mixture model with unknown knots: A comparison of two common approaches to inference*. CanAm Online Symposium Series in Educational Research Methods (with the Universities of Alberta, Iowa, Minnesota, Maryland, and Nebraska), Department of Educational Psychology, University of Minnesota, Minneapolis, MN.
2. **Kohli, N.** (2013, September). *Fitting a linear-linear piecewise growth mixture model with unknown knots: A comparison of different software procedures*. Division of Biostatistics, University of Minnesota, Minneapolis, MN.

1. **Kohli, N.** (2013, January). *Longitudinal data analysis with latent variables*. Institute of Child Development (ICD), University of Minnesota, Minneapolis, MN.

### Refereed Presentations

48. \*Zhang, Z., **Kohli, N.**, & Lock, E. F. (2024, July). *Assessing heterogeneous treatment effects in Bayesian longitudinal mediation models*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), Prague, Czech Republic.
47. \*Zhang, Z., **Kohli, N.**, & Lock, E. F. (2024, April). *Bayesian (non)linear random effects mediation models: Evaluating the impact of omitting confounders*. Paper presentation at the annual meeting of American Educational Research Association (AERA), Philadelphia, PA.
46. \*Rohloff, C. T., **Kohli, N.**, & Lock, E. F. (2023, July). *Identifiability and estimability of Bayesian linear and nonlinear crossed random effects models*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), College Park, MD.
45. \*Zhang, Z., **Kohli, N.**, & Lock, E. F. (2023, July). *Longitudinal Mediation Models: Understanding the Impact of Confounders*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), College Park, MD.
44. \*Rohloff, C. T., **Kohli, N.**, Lock, E. F. (2023, April). *Model Identification for Linear and Nonlinear Bayesian Crossed Random Effects Models*. Paper presentation at the annual meeting of American Educational Research Association (AERA), Chicago, IL.
43. \*Zhang, Z., \*Rohloff, C. T., **Kohli, N.** (2023, April). *Model Fit Indices for Random Effects Models: Translating Model Fit from Latent Growth Curve Models*. Paper presentation at the annual meeting of American Educational Research Association (AERA), Chicago, IL.
42. Rosser, B. R. S., \*Polter, E. J., Wheldon, C. W., Bates, A., Talley, K. M. C., Haggart, R., Wright, M., West, W., Mitteldorf, D., Ross, M. W., Konety, B.R., Dickstein, D. R., \*Zhang, Z., & **Kohli, N.** (2023, June). *Prostate cancer and HIV in gay and bisexual men: Selected results from the Restore studies*. AIDS Impact, Stockholm, Sweden.
41. Wheldon, C. W., Bates, A. J., Dickstein, D. R., Haggart, R., Wright, M., Zhang, Z., \*Polter, E. J., Talley, K. M. C., **Kohli, N.**, West, W., Mitteldorf, D. Ross, M. W., Konety, B. R., & Rosser, B. R. S. (2023, October). *Widening Horizons: Anal dilation as a potential therapy to enhance sexual function in gay and bisexual men treated for prostate cancer*. Science of Cancer Health Equity for Sexual and Gender Minority (SGM) Communities, New York, NY.
40. Dickstein, D. R., Bates, A. J., Wheldon, C. W., Haggart, R., Wright, M., \*Zhang, Z., Talley, K. M. C., **Kohli, N.**, West, W., Mitteldorf, D., Ross, M. W., Konety, B. R., Marshall, D. C., & Rosser, B. R. S. (2023, October). *Association between choice of radical prostatectomy or external beam radiotherapy and sexual health outcomes in gay and*



*bisexual men with early-stage prostate cancer*. Science of Cancer Health Equity for Sexual and Gender Minority (SGM) Communities, New York, NY.

39. \*Rohloff, C. T., **Kohli, N.**, & Chung S. (2022, April). *The Impact of Functional Form Complexity on Model Overfitting for Intrinsically Nonlinear Longitudinal Data*. Paper presentation at the annual meeting of American Educational Research Association (AERA), San Diego, CA. *This paper was awarded the Best Graduate Student Paper Award by the American Educational Research Association (AERA) Educational Statisticians Special Interest Group (SIG)*.
38. \*Lamm, R., **Kohli, N.**, & Lock, E. F. (2022, April). *Incorporating Covariates in Bayesian Piecewise Growth Mixture Models*. Paper presentation at the annual meeting of American Educational Research Association (AERA), San Diego, CA.
37. Rosser, B. R. S., Mkoka, D. A., Lukumay, G. G., Mgopa, L. R., Trent, M., Ross, M. W., **Kohli, N.**, Massawe, A. F., Mkonyi, E., Mushy, S. E., Mwakawanga, D. L., \*Rolhoff, C., Wadley, J., & Bonilla, Z. E. (2021, September). *Development of an African-centric sexual health curriculum for midwifery, nursing and medical students and providers in Tanzania*. Paper presentation at the 25th Congress of the World Association for Sexual Health, Cape Town, South Africa [Virtual].
36. Ross, M. W., Leshabari, S., \*Rolhoff, C., Mkoka, D. A., Lukumay, G. G., Mgopa, L. R., Trent, M., **Kohli, N.**, Massae, A. F., Mkonyi, E., Mushy, S. E., Mwakawanga, D. L., Wadley, J., Bonilla, J. E., Mohammed, I., & Rosser, B. R. S. (2021, September). *Evaluating the sexual health education for professionals scale in a pilot course for health care professions: a Tanzanian trial*. Paper presentation at the 25th Congress of the World Association for Sexual Health, Cape Town, South Africa [Virtual].
35. \*Rohloff, C. T., **Kohli, N.**, & Chung, S. (2021, July). *Functional form complexity and model fit for longitudinal data*. Paper presentation at the annual International Meeting of Psychometric Society (IMPS) [Virtual].
34. \*Kim, J., Kendeou, P., McMaster, K. L., & **Kohli, N.** (2021, April). *The promise of early language comprehension individualized instruction (ELCII)*. Poster presentation at the annual meeting of American Educational Research Association (AERA), Orlando, FL [Virtual].
33. \*Polter, E. J., **Kohli, N.**, Talley, K. M. C., Wheldon, C. W. Wright, M., Hoefler, C. J., Haggart, R., Mitteldorf, D., Kilian, G., Konety, B. R., Ross, M. W., West, W., & Rosser, B. R. S. (2021, April). *Creation and Psychometric Validation of the Inclusive Prostate Cancer Sexual Functioning Index (IPSI) in a cohort of Sexual Minority Men: The Restore-2 Study*. Poster presentation at the Cancer Center Survivorship Research Forum, Minneapolis, MN [Virtual].
32. \*Polter, E. J., Wheldon, C., Wright, M. M., **Kohli, N.**, Hoefler, C., & Rosser, B. R.S. (2020, December). *Sexual risk behavior and sexually transmitted infections (STIs) in gay and*

- bisexual men after prostate cancer: Findings from the Restore II study*. Poster presentation at the annual meeting of Society for Epidemiologic Research (SER), Boston, MA.
31. Talley, K. M. C., Polter, E. J., Haggart, R., **Kohli, N.**, Konety, B. R., Mitteldorf, D., Ross, M. W., West, W., Wheldon, C., Wright, M. M., & Rosser, B. R. S. (2020, November). *Urinary incontinence symptoms, severity, and associated characteristics in gay and bisexual prostate cancer survivors enrolled in a randomized clinical trial of an online rehabilitation program for urinary and sexual dysfunction*. Paper presentation at the annual meeting of the International Continence Society (ICS), Las Vegas, NV.
  30. \*Lamm, R., & **Kohli, N.** (2020, July). *Implementing covariates into piecewise growth mixture model detection*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), College Park, MD.
  29. \*Peralta, Y., **Kohli, N.**, Davison, M. L. & Lock, & E. F. (2020, April) *Modeling Associations Between Mathematics and Reading Achievement Trajectories: A Bivariate Piecewise Model Case*. Poster presentation at the annual meeting of American Educational Research Association Annual Meeting (AERA), San Francisco, CA  
<http://tinyurl.com/r33m3za> (Conference Canceled)
  28. Watkins, L., Duranczyk, I., Mesa, V., Ström, A., & **Kohli, N.** (2020, January). *Algebra instruction at community colleges: An exploration of its relationship with students' success*. Poster presentation at the annual Joint Math Meetings, Denver, CO.
  27. Mesa, V., \*Lamm, R., Watkins, L., Duranczyk, I., Ström, A., & **Kohli, N.** (2020, February). *A confirmatory factor analysis of EQIPM, a video coding protocol to assess the quality of community college algebra instruction*. Paper presentation at the 23rd Annual Conference on Research on Undergraduate Mathematics Education, Boston, MA.
  26. \*Peralta, Y., **Kohli, N.**, Lock, E. F., & Davison, M. L. (2019, July). *Bayesian modeling of bivariate associations using piecewise linear mixed-effects models*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), Santiago, Chile.
  25. \*Magro, S., Mondri, C., **Kohli, N.**, & Reynolds, A. (2019, March). *Maternal depression and socioemotional skill development in the Midwest Child-Parent Center expansion*. Poster presentation at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
  24. \*Auster-Gussman, L.A., Rothman, A., & **Kohli, N.** (2019, March). *The weight of specificity: The development and validation of a four-factor measure of weight mindset*. Poster presentation at the annual meeting of the Society of Behavioral Medicine (SBM), Washington DC.
  23. Watkins, L., \*Lamm R., **Kohli, N.**, Kimani, P., & the AI@CC Research Group. (2019, February). *Using student and instructor characteristics to predict student access in Algebra*

- courses*. Paper presentation at the Eleventh Congress of the European Society for Research in Mathematics Education (CERME11), Utrecht, Netherlands.
22. \*Auster-Gussman, L.A., Rothman, A., & **Kohli, N.** (2019, February). *The weight of specificity: The development and validation of a four-factor measure of weight mindset*. Poster presentation at the annual meeting of the Society for Personality and Social Psychology (SPSP), Portland, OR.
  21. \*Auster-Gussman, L.A., Rothman, A., & **Kohli, N.** (2019, February). *The weight of specificity: A new perspective on weight mindset*. Poster presentation at the annual meeting of the Social Personality Health Preconference at the Society for Personality and Social Psychology (SPSP), Portland, OR.
  20. Watkins, L., Duranczyk, I., Mesa, V., Ström, A. & **Kohli, N.** (2019, January). *Algebra instruction at community colleges: An exploration of its relationship with students success*. Poster presentation at the annual Joint Math Meetings (JMM), Baltimore, MD.
  19. \*Polter, E. J., Wheldon, C., **Kohli, N.**, & Rosser, B. R. S. (2018, November). *The role of HIV status in health-related quality of live in gay and bisexual prostate cancer survivors: Findings from the Restore Study*. Poster presentation at the annual meeting of American Association for Cancer Research (AACR), New Orleans, LA.
  18. \*Lim, D., Cawley, A., Watkins, L, Mesa, V., Duranczyk, I., Ström, A., & **Kohli, N.** (2018, February). *The development of a video coding instrument for assessing instructional quality in community college algebra classrooms*. Poster presentation at the Conference on the Special Interest Group of the MAA (SIG-MAA) Research in Undergraduate Mathematics Education (RUME) Conference, San Diego, CA.
  17. Watkins, L., Mesa, V., Duranczyk, I., Ström, A., & **Kohli, N.** (2018, January). *Algebra Instruction at Community Colleges: An Exploration of its Relationship with Student Success*. Poster presentation at the annual Joint Math Meetings (JMM), San Diego, CA.
  16. Mesa, V., Duranczyk, I., **Kohli, N.**, Ström, A., Watkins, L., & Mali, A. (2017, February). *Towards a measure of the quality of instruction @ community colleges: Focusing on mathematical procedures*. Poster presentation at the Conference on the Special Interest Group of the MAA (SIG-MAA) Research in Undergraduate Mathematics Education (RUME) Conference, San Diego, CA.
  15. Duranczyk, I., Mesa, V., **Kohli, N.**, Ström, A., & Watkins, L. (2017, February). *Measuring gains in knowledge within algebra instruction at community colleges: Assessing the efficacy of the Algebra Pre-Calculus Readiness (APCR) test*. Poster presentation at the Tenth Congress of the European Society for Research in Mathematics Education (CERME10), Dublin, Ireland.
  14. Capistrant, B. D., \*Leshner, L., **Kohli, N.**, Merengwa, E., Mitteldorf, D., West, W., & Rosser, B. R. S. (2016, November). *Social support, caregiving and cancer outcomes among*

- gay and bisexual men with prostate cancer*. Paper presentation at annual meeting of Gerontological Society of America (GSA), New Orleans, LA.
13. Lock, E. F., **Kohli, N.**, & Bose, M. (2016, July). *Detecting multiple random knots in Bayesian piecewise growth mixture models*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), Asheville, NC.
  12. \*Peralta, Y., **Kohli, N.**, & Wang, C. (2016, April). *Longitudinal data analysis using generalized nonlinear mixed-effects modeling framework*. Paper presentation at the annual meeting of the American Educational Research Association (AERA), Washington, DC.
  11. Sullivan, A. L., **Kohli, N.**, & Farnsworth, E. M., Jones, L., & Sadeh, S. (2016, April). *Comparing longitudinal models of reading achievement for students with and without learning disabilities*. Poster presentation at the annual meeting of the American Educational Research Association (AERA), Washington, DC.
  10. Rosser, B. R. S., Iantaffi, A., Capistrant, B. D., DeWitt, J., Johnson, D., Kilian, G. R., **Kohli, N.**, Konety, B. R., Merengwa, E., Mitteldorf D., West, W. (2015, August). *The effects of radical prostatectomy surgery on the sexual functioning and sexualities of gay and bisexual men in the USA: Qualitative results from the Restore study*. Poster presentation at the 41<sup>st</sup> Annual Proceedings of the International Academy of Sex Research (IASR) Meeting, Toronto, Canada.
  9. Wang, C., **Kohli, N.**, & \*Henn, L. (2015, April). *Fitting an IRT-LGC model in a single-group anchor test design*. Paper presentation at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
  8. **Kohli, N.**, Harring, J. R., & \*Zopluoglu, C. (2014, July). *A finite mixture of nonlinear random coefficient models for continuous repeated measures data*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), Madison, WI.
  7. Harwell, M. R., & **Kohli, N.** (2014, July). *Monte carlo studies in quantitative research in education and psychology*. Paper presentation at the annual International Meeting of the Psychometric Society (IMPS), Madison, WI.
  6. **Kohli, N.**, Harring, J. R., & Hancock, G. R. (2013, April). *A two-phase linear-linear piecewise growth mixture model*. Paper presentation at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.
  5. Tai-Seale, M., Dohan, D., Chung, S., Hung, D., Frosch, D., Wilson, C., McCuistion, M., **Kohli, N.**, Stults, C., & Luft, H. (2012, April). *Transforming primary care in 3 NCQA-certified PCMHs*. Paper presentation at the annual meeting of the HMO Research Network (HMORN), Seattle, WA.
  4. **Kohli, N.**, & Harring, J. R. (2011, April). *Modeling growth in latent variables using a piecewise function*. Paper presentation at the annual meeting of the American Educational

Research Association (AERA), New Orleans, LA. *This paper was awarded the Best Graduate Student Paper Award by the American Educational Research Association (AERA) Educational Statisticians Special Interest Group (SIG).*

3. **Kohli, N., & Harring, J. R.** (2010, May). *Fitting a second-order conditionally linear mixed-effects model as an SEM using Mplus.* Paper presentation at the annual meeting of the American Educational Research Association (AERA), Denver, CO.
2. **Kohli, N.** (2010, May). *Estimating a two-phase latent piecewise growth curve model with unknown change point.* Poster presentation at the annual meeting of the American Educational Research Association (AERA), Denver, CO.
1. **Kohli, N., Koran, J., & Rupp, A. A.** (2009, April). *An alternative comparison of item and person statistics based on item response theory versus classical test theory.* Poster presentation at the annual meeting of the National Council for Measurement in Education (NCME), San Diego, CA.

## **TEACHING AND CURRICULUM DEVELOPMENT**

### **University of Minnesota**

#### **Courses Taught**

3. Statistical Analysis of Longitudinal Data [EPsy 8282: Spring – 2013, 2014, 2015; Fall – 2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023, 2024].
2. Statistical Analysis Using Structural Equation Methods [EPsy 8266: Spring – 2014, 2015, 2016, 2018, 2020, 2021, 2022].
1. Statistical Methods I: Probability and Inference [EPsy 8261: Fall – 2012, 2013].

#### **Faculty Development Activities regarding Teaching**

*Faculty, Instructors, and Internationals of Color Community, Center for Teaching & Learning*  
[10/2014 – 04/2015]

### **University of Maryland**

#### **Courses Taught**

Introduction to Educational Statistics [EDMS 451: Spring – 2008, 2010; Fall – 2009]

## **ADVISING AND MENTORING**

### **Doctoral Students**

#### **Dissertations Directed**

5. Yu Wang, Educational Psychology, *Cognitive Diagnosis for Multiple-Choice Responses: Nonparametric Classification Method, Q-Matrix Theory, and Computerized Adaptive Testing*, Degree awarded in 2024.
4. Corissa Rohloff, Educational Psychology, *Model Identification and Selection for Nonlinear Mixed and Crossed Random Effects Models for Longitudinal Data*, Degree awarded in 2024.
3. Rik Lamm, Educational Psychology, *Incorporation of Covariates in Bayesian Piecewise Growth Mixture Models*, Degree awarded in 2022.
2. Yadira Peralta-Torres, Educational Psychology, *Bayesian Modeling of Associations in Bivariate Mixed-Effects Models for Segmented Growth Curves*, Degree awarded in 2018.
1. Katherine Edwards, Educational Psychology, *School-Wide Measures of Student Growth: A Comparison Study*, Degree awarded in 2016.

### **Academic Advisor**

8. Yue Zhao, Educational Psychology, PhD in progress (co-Advised with Dr. Nana Kim) [Fall 2023 –]
7. Yu Wang, Educational Psychology, PhD in progress (co-Advised with Dr. Nana Kim) [Fall 2023 – 2024]
5. Ziwei Zhang, Educational Psychology, PhD in progress [Fall 2020 –]
4. Corissa Rohloff, Educational Psychology, PhD in progress [Summer 2019 – Spring 2024]
3. Rik Lamm, Educational Psychology (co-Advised with Dr. Michael Rodriguez) [Summer 2019 – Fall 2022]
2. Yadira Peralta-Torres, Educational Psychology (co-Advised with Dr. Mark Davidson) [Summer 2014 – Fall 2018]
1. Katherine Edwards, Educational Psychology (co-Advised with Dr. Frances P. Lawrenz) [Fall 2014 – Spring 2016]

### **Doctoral Exam Committee Member**

#### ***Preliminary Oral Exam Committee***

Saron Demeke, Psychology, 2024  
 Yu Wang, Educational Psychology, 2023  
 Seohyeon Choi, Educational Psychology, 2023  
 Sarah Pan, Institute of Child Development, 2023  
 Danruo Zhong, Institute of Child Development, 2021  
 Sophia Magro, Institute of Child Development, 2020  
 Tara Kulkarni, Educational Psychology, 2019  
 Lisa Auster-Gussman, Psychology, 2016  
 Yadira Peralta-Torres, Educational Psychology, 2016  
 Siwen Shu, Psychology, 2016  
 Katherine Edwards, Educational Psychology, 2015

Elizabeth Hagen, Educational Psychology, 2013

***Final Exam (Dissertation) Committee***

Danruo Zhong, Institute of Child Development, 2023  
Sophia Magro, Institute of Child Development, 2023  
Tara Kulkarni, Educational Psychology, 2020  
Anne Zhou, Psychology, 2020  
Andrew Jordan Thayer, Educational Psychology, 2020  
Lisa Auster-Gussman, Psychology, 2019  
Yadira Peralta-Torres, Educational Psychology, 2018  
Jiwoo Lee, School of Nursing, 2016  
Katherine Edwards, Educational Psychology, 2016

**Master's Students**

**Academic Advisor**

Marianna Quanbeck, Educational Psychology, Degree awarded in 2023  
Youfu Yan, Educational Psychology, Degree awarded in 2022

**Final Exam (Thesis) Committee Member**

Rik Lamm, Educational Psychology, May 2019  
Adam Kim, Psychology, May 2016  
Alaa Hourri, Educational Psychology, March 2016  
Leila Jones, Educational Psychology, March 2016  
Kevin Frank, Educational Psychology, May 2016  
Claire Harty, Educational Psychology, March 2016

**SERVICE AND PUBLIC OUTREACH**

**Service to the Discipline, Profession, and Interdisciplinary Area(s)**

**Grants Review**

Principal member of the Institute of Education Sciences (IES)' Basic Processes Scientific Review Panel, 2017 – 2020.

Ad-hoc reviewer for Education and Human Resources Core Research (ECR) Program at the National Science Foundation, 2016.

Ad-hoc reviewer for Institute of Education Sciences (IES)' Basic Processes Scientific Review Panel, 2016.

Ad-hoc reviewer for United Kingdom (UK) Medical Research Council (MRC), 2015.

## Editorships

Editor, Application Reviews and Case Studies (ARCS), *Psychometrika* (2023 –)  
 Editorial Board, *Journal of Educational and Behavioral Statistics* (2021 –)  
 Editorial Board, *Multivariate Behavioral Research* (2021 –)  
 Editorial Board, *Psychological Methods* (2020 –)  
 Editorial Board, *Educational and Psychological Measurement* (2018 –)  
 Editorial Board, *Journal of Educational Psychology* (2020 – 2023)

## Ad-hoc Peer Review

### ***Referee for Methodological Journals:***

*Psychometrika, Psychological Methods, Multivariate Behavioral Research, Journal of Royal Statistical Society—Series A, Journal of Educational and Behavioral Statistics, British Journal of Mathematical and Statistical Psychology, Structural Equation Modeling: A Multidisciplinary Journal, Applied Psychological Measurement, Behavior Research Methods, Sociological Methods and Research, International Journal of Behavioral Development, Journal of Modern Applied Statistical Methods, Journal of Applied Statistics, Methodology: European Journal of Research Methods for the Behavioral and Social Sciences, Statistics in Medicine, Journal of Biopharmaceutical Statistics*

### ***Referee for Substantive Journals:***

*The Journal of Experimental Education, Child Development, Educational Researcher, Journal of Educational Psychology, American Educational Research Journal, Exceptional Children, Evaluation Review, School Psychology Review, Learning and Individual Differences, Educational Studies in Mathematics, Quality of Life Research, Cultural Diversity and Ethnic Minority Psychology, Peer J, PLOS ONE, BMC Psychology*

### **Conference Proposals Review (2013 – 2014):**

American Educational Research Association Annual Meeting – Division  
 – Educational Statisticians SIG, and Structural Equation Modeling SIG

## **Service to the Program, Department, College, and University**

### **Program**

19. Program Coordinator, Quantitative Methods in Education, Department of Educational Psychology [Summer 2021 –].
18. Chair, Faculty Search Committee, Quantitative Methods in Education Program, Department of Educational Psychology [Fall 2021, 2022, 2023].



17. Member, Faculty Search Committee, Quantitative Methods in Education Program, Department of Educational Psychology [Spring 2017 – Fall 2018].

### **Department**

16. Member, Steering Committee, Department of Educational Psychology [Fall 2020 –].
15. Synopsis Chair, Annual Review Process Committee, Department of Educational Psychology [Fall 2019 –].
14. Member, Faculty and P&A Development & Recognition Committee (PDRC), Department of Educational Psychology [Spring 2020, 2022, 2023, 2024].
13. Peer mentor for the EPSY Mentors Program, Department of Educational Psychology [Fall 2019 – Spring 2020, Fall 2022].
12. Member, Diversity Committee, Department of Educational Psychology [Fall 2019 – Spring 2020].
11. Member, Faculty Search Committee, School Psychology Program, Department of Educational Psychology [Fall 2019].
10. Human Resource Plan Task Force, Department of Educational Psychology, College of Education and Human Development (CEHD) [Fall 2018].
9. Member, Annual Review Process Committee, Department of Educational Psychology [Fall 2018].
8. Member, Department Chair Search Committee, Department of Educational Psychology, [Fall 2018].
7. Merit Review Committee (MRC), Department of Educational Psychology [Spring 2018].
6. Graduate Advisory Committee (GAC), Department of Educational Psychology [Fall 2013 – Fall 2016, Spring 2018, Fall 2018].
5. Awards and Honors Committee, Department of Educational Psychology [Fall 2015 – Spring 2016].

### **College**

4. College of Education and Human Development (CEHD) Promotion+Tenure Committee, Department of Educational Psychology Representative [Fall 2024 – Fall 2027].
3. College of Education and Human Development (CEHD) Consultative Committee, Department of Educational Psychology Representative [Fall 2019 – Spring 2021].

## University

2. Grant-in-Aid of Research, Artistry and Scholarship Review Committee, Office of the Vice President for Research, University of Minnesota [Spring 2020 – Spring 2023].
1. University Doctoral Dissertation Fellowship (DDF) Committee, CEHD Faculty Reviewer [Fall 2019 – Spring 2021].

## PROFESSIONAL DEVELOPMENT ACTIVITIES

7. College Hub to Aspire, Inspire, and Reinvent (CHAIR) Leadership Program, College of Education and Human Development (CEHD) [Fall 2022 – Spring 2023].

## Workshops Attended

6. *Validity Evidence for Measurement in Mathematics Education* (April 2017), funded by National Science Foundation (NSF), San Antonio, TX.
5. *Propensity Score Methods for Causal Inference* (July 2014), International Meeting of the Psychometric Society (IMPS), University of Wisconsin.
4. *Categorical Latent Variable Modeling with Cross-Sectional Data and Longitudinal Data* (August 2010), Johns Hopkins University.
3. *Growth Modeling with Latent Variables Using Mplus* (March 2010), Johns Hopkins University.
2. *Advanced Topics in Structural Equation Modeling* (January 2010), University of Maryland.
1. *Statistical Analysis of Latent Variables Using Mplus* (August 2009), Johns Hopkins University.