

## **ANINDITA SEN, Ph.D.**

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### **SENIOR RESEARCHER**

Senior Researcher coordinating large-scale assessments to deliver education statistics tracking key trends in education and supporting data driven conclusions. Skilled in statistical analysis and translating complex data into accessible insights. Experienced in grant writing across public and nonprofit sectors. Strong ability to work across multi-purpose teams, manage tight timelines, and advance data dissemination through highlight reports and webinars. Mentor to junior staff by guiding their research projects and fostering professional growth.

### **AREAS OF EXPERTISE**

- Large-scale International Student Assessments
- Technical Review and Quality Assurance of Educational Data & Publications
- Analysis of Complex Datasets
- Educational Policy

### **SKILLS**

Project Management | Quality Control Reviews | Quantitative & Qualitative Data Analysis | Data Trainings | Proposal Development | Data Dissemination | Staff Mentorship

Technical Skills: R | SPSS | SAS | NVivo | Tableau | Excel

### **PROFESSIONAL EXPERIENCE**

#### **American Institutes for Research (AIR)**

**2001- 2025**

##### **Senior Researcher, 2004- 2025**

Led international assessment projects and research efforts to deliver actionable education statistics through robust data pipelines, data analysis, and targeted dissemination.

##### **Project Leader for Program for International Student Assessment (PISA)**

- Managed a team of researchers supporting PISA, a National Center for Education Statistics (NCES) led international study evaluating high school students' math, science, reading, and financial literacy.
- Led test content development, database cleaning and reviews, data analysis, and report writing.
- Provided technical support to NCES in ensuring methodological rigor and standards compliance in data reporting.
- Played pivotal role in disseminating survey results through tailored PowerPoint presentations, high visibility media briefings, and webinars ensuring impactful communication with diverse audiences.
- Guided junior researchers by breaking down complex statistical ideas into simple, relatable steps; helped them plan and carry out research projects, write papers, and design posters for conferences.
- **Project Coordinator for an Interactive Data Tool using assessment data**
- Guided its conceptual framework and ensured methodological integrity. Conducted extensive usability checks to review navigation processes and technical accuracy.
- Collaborated with multi-organization research teams to lead data trainings equipping researchers, with skills to effectively utilize large-scale databases.

## ADDITIONAL RELEVANT EXPERIENCE

### American Institutes for Research

Section Leader-*Societal Supports for Learning* in *The Condition of Education* [Dept. of Education]

### NYC U.S. Office of Management and Budget

Data Analyst

## EDUCATION

### New York University

Doctor of Philosophy (Ph.D.) in Economics

## SELECTED PUBLICATIONS

- Highlights of U.S. PISA 2018 financial literacy assessment (NCES 2020-072). U.S. Department of Education. Institute of Education Sciences, National Center for Education Statistics.
- Highlights of U.S. PISA 2018 Results (NCES 2020-166). U.S. Department of Education. Institute of Education Sciences, National Center for Education Statistics.
- Sen, A., D. Kastberg (2017). Collaborative Problem-Solving Skills of 15-Year-Olds: Results from PISA 2015 (NCES 2017-249). Washington, DC: U.S. Department of Education.
- P. Gonzales, Sen, A (2017). Financial literacy of 15-Year-Olds: Results from PISA 2015 (NCES 2017086). Washington, DC: U.S. Department of Education.
- Sen, A., Harner, A. L., Warren, L. K., and Malley, L. B. (2012). The United States. In A. M. Kennedy, I. V. S. Mullis, M. O. Martin, A. M. Kennedy, and K. L. Trong (Eds.), *PIRLS 2011 encyclopedia*. Chestnut Hill, MA: Boston College, TIMSS and PIRLS International Study Center.
- Harner, A. L., and Sen, A. (2012). International reading, mathematics, and science proficiency. In *The Condition of Education 2012*. (NCES 2012). Washington, DC: U.S. Department of Education.
- Miller, D. C., Sen, A., Malley, L. B., and Burns, S. D. (2009). Comparative indicators of education in the United States and other G-8 countries: 2009 (NCES Pub. No. 2009-039). Washington, DC: National Center for Education Statistics.
- Sen, A., Burns, S., and Miller, D. C. (2009). Teacher strategies to help fourth graders having difficulty in reading: An international perspective (NCES Pub. No. 2009-013). Washington, DC: National Center for Education Statistics.
- Sen, A., Partelow, L., and Miller, D. Comparative indicators of education in the United States and other G8 countries: 2004 (NCES 2004-017). Washington, DC: U.S. Department of Education.
- Lemke, M., Sen, A., Pahlke, E., Partelow, L., Miller, D., Williams, T., Jocelyn, L. (2004). International outcomes of learning in mathematics literacy and problem solving: PISA 2003 results from the U.S. perspective (NCES 2005-003). Washington, DC: U.S. Department of Education.
- Ogle, L., Sen, A., Pahlke, E., Jocelyn, L., Kastberg, D., Roey, S., and Williams, T. (2003). International comparisons in fourth grade reading literacy: Findings from the Progress in International Reading Literacy Study (PIRLS) of 2001 (NCES 2003-073). Washington, DC: U.S. Government Printing Office.
- Wirt, J., Choy, S., Provasnik, S., Rooney, P., Sen, A., and Tobin, R. (2004). *The Condition of Education 2004* (NCES 2004-077). Washington, DC: U.S. Government Printing Office.
- Wirt, J., Choy, S., Provasnik, S., Rooney, P., Sen, A., and Tobin, R. (2003). *The Condition of Education 2003* (NCES 2003-067). Washington, DC: U.S. Government Printing Office.

## SELECTED PRESENTATIONS

- Erberber, Ebru and Sen, A. (2025, Accepted for April). A Closer Look at the U.S. Results from TIMSS 2023, ICILS 2023, and PISA 2022. Symposium panel accepted at the annual meeting of the American Educational Research Association, Denver, Colorado.
- Sharlyn, Ferguson and Sen, A. (2016, April). Does Mathematics Literacy Indicate Strong Problem-Solving Skills? Results from PISA 2012. Poster presented at the Comparative International Educational Society, Vancouver, Canada.
- Sen, A. (2014, April). PISA and beyond: Analysis of international data from PISA using multiple tools and incorporating additional country-level data. Workshop conducted at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Sen, A. (2014, April). Over a decade of PISA (Program for international student assessment): Findings on the achievement, engagement, and measurement of 15-year-olds' literacy. Paper presented in the Symposium on Making Research Relevant at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Sen, A. (2012, June). Presenting the PISA 2009 school reports tool. Presented at the summer conference conducted for PISA Schools, Washington, DC.
- Sen, A. (2011, September). Presenting the PISA 2009 school reports tool. Presented at the National Projects Managers Meeting, PISA 2009, Singapore.
- Miller, D. C., Sen, A., Stephens, M., Hodson, C., and Harner, A. L. (2011, May). Reading literacy from an international perspective: Findings from PISA over the last decade. Paper presented in the Symposium on The Power of Literacy at the 56th annual convention of the International Reading Association, Orlando, FL.
- Sen, A., Miller, D. C., and Harner, A. L. (2011, April). Trends in student achievement and reading engagement: Findings from PISA 2000 to 2009. Paper presented in the Symposium on A Decade of PISA: Findings on the achievement, engagement, and measurement of 15-year-olds' literacy at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Sen, A., and Malley, L. B. (2008, April). PISA science items. Presented at the annual meeting of the American Educational Research Association, New York, NY.
- Miller, D. C., Sen, A., and Malley, L. B. (2008, April). A comparative look at education in the United States and other G8 countries. Presented at the annual meeting of the Comparative International Educational Society, New York, NY.
- Sen, A., and Miller, D. C. (2005, April). Cross-country comparison of low performers in mathematics and problem solving. Presented at the annual meeting of the American Educational Research Association, Montreal, Quebec, Canada.
- Miller, D. C., Partelow, L. A., and Sen, A. (2004, April). Self-regulatory reading processes in relation to fourth graders' reading literacy. Paper presented in the Symposium on Self-Regulated Learning Strategies and Academic Performance at the annual meeting of the American Educational Research Association, San Diego, CA.
- Sen, A., Pahlke, E., and Miller, D. C. (2004, April). A cross-national analysis of fourth graders' perceptions of school climate and safety: Results from PIRLS 2001. Presented at the annual meeting of the American Educational Research Association, San Diego, CA.