# **Andrew Dean Ho**

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# **ACADEMIC POSITIONS**

| 2018 - present | Charles William Eliot Professor of Education, Harvard Graduate School of |
|----------------|--|
|                | Education  |
| 2014 - 2018    | Professor of Education, Harvard Graduate School of Education             |
| 2013 - 2014    | Associate Professor, Harvard Graduate School of Education                |
| 2009 - 2013    | Assistant Professor, Harvard Graduate School of Education                |
| 2009 - 2010    | Visiting Scholar, Stanford University School of Education                |
| 2005 - 2009    | Assistant Professor, University of Iowa                                  |
|                |  |

# **EDUCATION**

| 2000 - 2005 | Stanford University     | Ph.D. Educational Psychology (2005) M.S. Statistics (2003) |
|-------------|-------------------------|--|
| 1995 - 1999 | <b>Brown University</b> | Sc.B. magna cum laude <u>Neuroscience</u> (1999)           |

# **ACADEMIC AWARDS, HONORS, and FELLOWSHIPS**

| 2024<br>2021 | President, National Council on Measurement in Education Elected Member, National Academy of Education |
|--------------|---|
| 2020         | Morningstar Family Teaching Award, Harvard Graduate School of Education                               |
| 2020         | Significant Contribution to Educational Measurement and Research Methodology (with                    |
|              | Sean Reardon, Ben Shear, Erin Fahle, and Demetra Kalogrides), Division D, American                    |
|              | Educational Research Association  |
| 2018         | Annual Award for Exceptional Achievement in Educational Measurement (with Sean                        |
|              | Reardon, Ben Shear, Erin Fahle, Demetra Kalogrides, Ken Shores, and Katherine                         |
|              | Castellano), National Council on Measurement in Education   |
| 2018         | Frank B. Womer Lectureship in Measurement and Assessment, <i>University of Michigan</i>               |
| 2013         | Palmer O. Johnson Memorial Award (with Sean Reardon), American Educational                            |
|              | Research Association  |
| 2010         | Jason Millman Promising Measurement Scholar Award, National Council on                                |
|              | Measurement in Education  |
| 2009         | National Academy of Education/Spencer Postdoctoral Fellowship   |
| 2008         | Thomas N. Urban Research Award, <i>Iowa Academy of Education</i>                                      |
| 2007         | Exemplary Dissertation Award, The Spencer Foundation  |
| 2007         | Brenda H. Loyd Outstanding Dissertation Award, National Council on Measurement in                     |
|              | Education   |
| 2007         | Mary Catherine Ellwein Outstanding Dissertation Award, Division D, American                           |
|              | Educational Research Association  |

- 2004 Dissertation Fellowship for Research Related to Education, *The Spencer Foundation*
- 2004 Harold Gulliksen Psychometric Research Fellowship, Educational Testing Service
- 2003 Walter J. Gores Award for Excellence in Teaching, Stanford University

# **BOOKS**

Castellano, K. E., & Ho, A. D. (2013). *A practitioner's guide to growth models.* Washington, DC: Council of Chief State School Officers. [Public]

# **JOURNAL ARTICLES**

- Ho, A. D., Ackerman, T., Bandalos, D., Briggs, D., Everson, H., Lottridge, S., Madison, M., Sinharay, S., Rodriguez, M., Russell, M., von Davier, A., & Wind, S. (2024). Foundational competencies in educational measurement: A rejoinder. *Educational Measurement:*Issues and Practice. [DOI] [Public]
- Ahmed, I., Bertling, M., Zhang, L., Ho, A. D., Loyalka, P., Xue, H., Rozelle, S., & Domingue, B. W. (in press). Heterogeneity of item-treatment interactions masks complexity and generalizability in randomized controlled trials. *Journal of Research on Educational Effectiveness*. [DOI] [Public]
- Ho, A. D. (2024). Artificial intelligence and educational measurement: Opportunities and threats. Journal of Educational and Behavioral Statistics. [DOI] [Public]
- Ackerman, T., Bandalos, D., Briggs, D., Everson, H., Ho, A. D., Lottridge, S., Madison, M., Sinharay, S., Rodriguez, M., Russell, M., von Davier, A., & Wind, S. (2023). Foundational competencies in educational measurement. *Educational Measurement: Issues and Practice*. [DOI] [Public]
- Ho, A. D. (2022). Specifying the three Ws in educational measurement: Who uses which scores for what purpose? *Journal of Educational Measurement*, *59*, 418-422. [DOI] [Public]
- An, L. S., Ho, A. D., & Davis, L. L. (2022). Disrupted data: Using longitudinal assessment systems to monitor test score quality. *Educational Measurement: Issues and Practice*, 41(1), 28-32. [DOI] [Public]
- Ho, A. D., Reardon, S. F., & Kalogrides, D. (2021). Validation methods for aggregate-level test scale linking: A rejoinder. *Journal of Educational and Behavioral Statistics*, 46, 209-218. [DOI] [Public]
- Liu, T. H., Ho, A. D., Hsu, Y. T., & Hsu, C. C. (2021). Validation of the EQ-5D in Taiwan using Item Response Theory. *BMC Public Health*, *21*, 1-9. [DOI] [Public]
- Reardon, S. F., Kalogrides, D., & Ho A. D. (2021). Validation methods for aggregate-level test

- scale linking: A case study mapping school district test score distributions to a common scale. *Journal of Educational and Behavioral Statistics*, 46(2), 138–167. [DOI] [Public]
- Ho, A. D. (2020). What is the Stanford Education Data Archive teaching us about national educational achievement? *AERA Open.* [DOI] [Public]
- Klugman, E., & Ho, A. D. (2020) How can released state test items support interim assessment purposes in an educational crisis? *Educational Measurement: Issues and Practice, 39*(3), 65-69. [DOI] [Public]
- Molina, E., Fatima, S. F., Ho, A. D., Melo, C., Wilichowski, T. M., & Pushparatnam, A. (2020).

  Measuring the quality of teaching practices in primary schools: Assessing the validity of the Teach observation tool in Punjab, Pakistan. *Teaching and Teacher Education, 96.*[DOI] [Public]
- Quinn, D., & Ho, A. D. (2020). Ordinal approaches to decomposing between-group test score disparities. *Journal of Educational and Behavioral Statistics*. [DOI] [Public]
- Mattern, K., Radunzel, J., Bertling, M., & Ho, A. D. (2018). How should colleges treat multiple admissions test scores? *Educational Measurement: Issues and Practice, 37*(3), 11-23. [DOI] [Public]
- Jessen, A., Ho, A. D., Corrales, C. E., Yueh, B., & Shin, J. J. (2018). Improving measurement efficiency of the Inner EAR scale with Item Response Theory. *Otolaryngology-Head and Neck Surgery*, *158*, 1093-1100. [DOI] [Public]
- Reardon, S. F., Shear, B. R., Castellano, K. E., & Ho, A. D. (2017). Using heteroskedastic ordered probit models to recover moments of continuous test score distributions from coarsened data. *Journal of Educational and Behavioral Statistics*, 42, 3-45. [DOI] [Public]
- Dede, C., Ho, A. D., & Mitros, P. (2016). Big data analysis in higher education: Promises and pitfalls. *Educause Review*, *51*(5), 23-34. [DOI] [Public]
- Ho, A. D. (2016). Castles in the clouds: The irrelevance of vertical scales for most practical concerns. *Measurement: Interdisciplinary Research and Perspectives, 14,* 34-38. [DOI] [Public]
- Ho, A. D. (2016). The new (educational) statistics: Properties of scales that matter. *Journal of Educational and Behavioral Statistics*, 41, 94-99. [DOI] [Public]
- Northcutt, C. G., Ho, A. D., & Chuang, I. L. (2016). Detecting and preventing "multiple-account" cheating in Massive Open Online Courses. *Computers and Education, 100,* 71-80. [DOI] [Public]

- Reardon, S. F., & Ho, A. D. (2015). Practical issues in estimating achievement gaps from coarsened data. *Journal of Educational and Behavioral Statistics*, 40, 258-189. [DOI] [Public]
- Yee, D. S., & Ho, A. D. (2015). Discreteness causes bias in percent-above-cutoff comparisons: A case study from educational testing. *American Statistician*, 69, 174-181. [DOI] [Public]
- Miller, K., Schell, J., Ho, A. D., Lukoff, B., & Mazur, E. (2015). Response switching and self-efficacy in Peer Instruction classrooms. *Physical Review Special Topics Physics Education Research*, 11, 010104. [DOI] [Public]
- Castellano, K. E., & Ho, A. D. (2015). Practical differences among aggregate-level conditional status metrics: From median student growth percentiles to value-added models. *Journal of Educational and Behavioral Statistics*, 40, 35-68. [DOI] [Public]
- DeBoer, J., Ho, A. D., Stump, G. S., & Breslow, L. (2014). Changing "course": Reconceptualizing educational variables for Massive Open Online Courses. *Educational Researcher*, 43, 74-84. [DOI] [Public]
- Ho, A. D. (2014). Variety and drift in the functions and purposes of assessment in K-12 education. *Teachers College Record*, *116*(110307), 1-18. [DOI] [Public]
- Ho, A. D., & Yu, C. C. (2015). Descriptive statistics for modern test score distributions: Skewness, kurtosis, discreteness, and ceiling effects. *Educational and Psychological Measurement*, 75, 365-388. [DOI] [Public]
- Seaton, D. T., Nesterko, S., Mullaney, T., Reich, J., & Ho, A. D. (2014). Characterizing video use in the catalogue of MITx MOOCs. *eLearning Papers*, *37*, 33-41. [DOI] [Public]
- Ho, A. D. (2013). The epidemiology of modern test score use: Anticipating aggregation, adjustment, and equating. *Measurement: Interdisciplinary Research and Perspectives,* 11, 64-67. [DOI] [Public]
- Breslow, L., Pritchard, D. E., DeBoer, J., Stump, G. S., Ho, A. D., & Seaton, D. T. (2013). Studying learning in the worldwide classroom: Research into edX's first MOOC. *Research and Practice in Assessment, 8,* 13-25. [DOI] [Public]
- Castellano, K. E., & Ho, A. D. (2013). Contrasting OLS and quantile regression approaches to Student "Growth" Percentiles. *Journal of Educational and Behavioral Statistics*, 38, 190-215. [DOI] [Public]
- Ho, A. D., & Reardon, S. F. (2012). Estimating achievement gaps from test scores reported in ordinal "proficiency" categories. *Journal of Educational and Behavioral Statistics*, 37, 489-517. [DOI] [Public]

- Furgol, K. E., Ho, A. D., & Zimmerman, D. L. (2010). Estimating trends from censored assessment data under No Child Left Behind. *Educational and Psychological Measurement*, 70(5), 760-776. [DOI] [Public]
- Ho, A. D., Lewis, D. M., & Farris, J. L. M. (2009). The dependence of growth-model results on proficiency cut scores. *Educational Measurement: Issues and Practice*, 28(4), 15-26. [DOI] [Public]
- Ho, A. D. (2009). A nonparametric framework for comparing trends and gaps across tests. *Journal of Educational and Behavioral Statistics*, 34, 201-228. [DOI] [Public]
- Ho, A. D. (2008). The problem with "proficiency": Limitations of statistics and policy under No Child Left Behind. *Educational Researcher*, *37*, 351-360. [DOI] [Public]
- Ho, A. D. (2007). Discrepancies between score trends from NAEP and state tests: A scale-invariant perspective. *Educational Measurement: Issues and Practice*, *26*(4), 11-20. [DOI] [Public]

### **COMMISSIONED PAPERS, TECHNICAL REPORTS, CHAPTERS**

- Ho, A. D., & Polikoff, M. S. (in press). Test-based accountability in K-12 education. In M. Pitoniak and L. Cook (Eds.), *Educational Measurement* (5<sup>th</sup> ed.). New York, NY: Routledge. [DOI]
- Ackerman, T., Bandalos, D., Briggs, D., Everson, H., Ho, A. D., Lottridge, S., Madison, M., Sinharay, S., Rodriguez, M., Russell, M., von Davier, A., & Wind, S. (2023). Foundational Competencies in Educational Measurement. National Council on Measurement in Education. [Public]
- Ho, A. D. (2022). Measuring change in a changing world: Toward efficient measurement of aggregate educational progress. National Assessment Governing Board. [Public]
- Cohodes, S., Goldhaber, D., Hill, P., Ho, A. D., Kogan, V., Polikoff, M., Sampson, C., & West, M. (2022). Student achievement gaps and the pandemic: A new review of evidence from 2021-2022. Center on Reinventing Public Education. [Public]
- Department of Defense Content Panel Final Report. (2022). Initiatives and Assessments.

  National Opinions Research Consortium. Department of Defense. [Public]
- National Academies of Sciences, Engineering, and Medicine. (2022). A Pragmatic Future for NAEP: Containing Costs and Updating Technologies. Washington, DC: The National Academies Press. [DOI] [Public]
- Center for Reinventing Public Education. (2021). How much have students missed academically

- because of the pandemic? A review of the evidence to date. Center for Reinventing Public Education. [Public]
- Brandt, C., Lyons, S., An, L., Barnes, S., & Ho, A. D. (2022). Understanding the effects of the pandemic when the state test is not available. National Center for the Improvement of Educational Assessment.
- Ho, A. D. (2021). Three test-score metrics that all states should report in the COVID-19-affected spring of 2021. [Public]
- Fahle, E. M., Chavez, B., Kalogrides, D., Shear, B. R., Reardon, S. F., & Ho, A. D. (2021). Stanford Education Data Archive: Technical Documentation (Version 4.0). [Public]
- Ho, A. D. (2017). Advancing educational research and student privacy in the "Big Data" era. Washington, DC: National Academy of Education. [Public]
- Haertel, E. H., & Ho, A. D. (2016). Fairness using derived scores. In N. Dorans and L. Cook (Eds.), Fairness in educational assessment and measurement (217-237). New York, NY: Routledge. [Public]
- Chuang, I., & Ho, A. D. (2016). *HarvardX and MITx: Four years of open online courses*. [DOI] [Public]
- Ho, A. D., Chuang, I., Reich, J., Coleman, C., Whitehill, J., Northcutt, C., Williams, J. J., Hansen, J., Lopez, G., & Petersen, R. (2015). *HarvardX and MITx: Two years of open online courses* (HarvardX Working Paper No. 10). [DOI] [Public]
- Ho, A. D., Reich, J., Nesterko, S., Seaton, D., Mullaney, T., Waldo, J., & Chuang, I. (2014).

  HarvardX and MITx: The First Year of Open Online Courses. (HarvardX and MITx Working Paper No. 1) [DOI] [Public]
- Reich, J., Nesterko, S., Seaton, D., Mullaney, T., Waldo, J., Chuang, I., & Ho, A. D. (2014). *Health in Numbers and Human Health and Global Environmental Change: 2012-2013. Harvard School of Public Health course reports* (HarvardX Working Paper No. 2) [DOI] [Public]
- Ho, A. D. (2014). Accuracy, transparency, and incentives: Contrasting criteria for evaluating growth models. In R. W. Lissitz and H. Jiao (Eds.), *Value added modeling and growth modeling with particular application to teacher and school effectiveness* (61-85). Charlotte, NC: Information Age Publishing. [Public]
- Ho, A. D. (2013). Variety and drift in the functions and purposes of assessment in K-12 education. Paper commissioned by the Gordon Commission on the Future of Assessment in Education. [Public]

- Ho, A. D., & Kane, T. J. (2013). *The reliability of classroom observations by school personnel.* Bill & Melinda Gates Foundation, Seattle, WA. [Public]
- Haertel, E. H., Beauregard, R., Confrey, J., Gomez, L., Gong, B., Ho, A. D., et al. (2012). *The future of NAEP*. White paper commissioned by the NCES Initiative on the Future of NAEP.

  [Public]
- Ho, A. D. (2011). Supporting growth interpretations using through-course assessments. Paper commissioned by the Center for K-12 Assessment and Performance Management at ETS. [Public]
- Hoffer, T. B., Hedberg, E. C., Brown, K. L., Halverson, M. L., Reid-Brossard, P., Ho, A. D., et al. (2011). *Final report on the evaluation of the Growth Model Pilot Project*. Washington, DC: U.S. Department of Education. [Public]
- Erickson, V., Ho, A. D., Holtzman, D., Jaciw, A., Lukoff, B., Shen, X., Wei, X., & Haertel, E. (2007). 
  Closing the Gap? A Comparison of Changes Over Time in White-Black and WhiteHispanic Achievement Gaps on State Assessments Versus State NAEP (CSE Report 721).

  Los Angeles, CA: National Center for Research on Evaluation, Standards, and Student 
  Testing (CRESST), Center for the Study of Evaluation, University of California, Los 
  Angeles. [Public]
- Ho, A. D. (2007). Growth models under NCLB: Back to basics. NCME Newsletter, 15(4), 5-7.
- Ho, A. D., & Haertel, E. H. (2007a). *Apples to apples? The underlying assumptions of state-NAEP comparisons*. Washington, DC: Council of Chief State School Officers. [Public]
- Ho, A. D., & Haertel, E. H. (2007b). *(Over)-interpreting mappings of state performance standards onto the NAEP scale*. Washington, DC: Council of Chief State School Officers. [Public]
- Ho, A. D., & Haertel, E. H. (2006). *Metric-Free Measures of Test Score Trends and Gaps with Policy-Relevant Examples* (CSE Report 665). Los Angeles, CA: National Center for Research on Evaluation, Standards, and Student Testing (CRESST), Center for the Study of Evaluation, University of California, Los Angeles. [Public]
- Ho, A. D. (2005). Addressing discrepancies between South Carolina state test score trends on the Palmetto Achievement Challenge Tests and the National Assessment of Educational Progress. Report provided to the South Carolina Department of Education, Columbia, South Carolina.

# **EXTERNAL GRANTS**

Principal Investigator. *Pulse survey strategies for inclusion and belonging in higher education.* 

American Association of State Colleges and Universities. \$60,000. 7/1/2023-8/31/2024.

Co-Principal Investigator, with Dr. Sean Reardon. *Patterns of achievement and achievement gaps among school districts: New data, new measures, new insights.* The Spencer Foundation. #201500058. \$500,000. 9/1/2014-8/31/2016.

Co-Principal Investigator, with Dr. Lori Breslow and Dr. Daniel Hastings. *Understanding the edX MOOC: How can Circuits and Electronics (6.002x) help us understand the MOOC learning experience?* National Science Foundation. DRL-1258448. Rapid Response Research Program. \$200,000. 10/1/2012-9/30-2013.

Co-Principal Investigator, with Dr. Sean Reardon. *Addressing Practical Problems in Achievement Gap Estimation: Nonparametric Methods for Censored Data.* Institute of Education Sciences. R305D110018. Statistical and Research Methodology. \$697,878. 4/1/2011-3/31/2013

Principal Investigator, with Dr. Stephen Dunbar. *Evaluating the Impact of the Choice of Test Score Scale on the Measurement of Individual Student Growth*. Institute of Education Sciences. R305U070008. Unsolicited Research Grant. \$273,844. 9/1/2007-8/31/2010.

Principal Investigator. Going Long: Metric-Free Representations of Test Score Trajectories over Multiple Time Points. The Spencer Foundation. #200800075. \$25,000. 8/1/07-1/31/09.

Principal Investigator. A Framework for Subscale-Level Comparisons of NAEP and State Testing Results Using Metric-Free Gap and Trend Statistics. Institute of Education Sciences. R902B06007. Secondary Analysis of National Assessment of Educational Progress Data. \$63,496. 5/15/06-5/14/07.

#### **CONFERENCE PAPERS AND PRESENTATIONS**

- Ho, A. D. (2024, April 13). Artificial intelligence and educational measurement: Opportunities and threats. Paper presented at the annual meeting of the National Council on Measurement in Education. Philadelphia, PA.
- Ackerman, T., Bandalos, D., Briggs, D., Everson, H., Ho, A. D., Lottridge, S., Madison, M., Sinharay, S., Rodriguez, M., Russell, M., von Davier, A., & Wind, S. (2023, April 15). Foundational Competencies in Educational Measurement. Report presented at the annual meeting of the National Council on Measurement in Education. Chicago, IL.
- Ho, A. D. (2023, April 13). *Measuring change in a changing world: Updating frameworks without breaking trends.* Paper presented at the annual meeting of the National Council on Measurement in Education. Chicago, IL.
- An, L. S., Ho, A. D., & Davis, L. L. (2022, April 23). *Disrupted data: Using longitudinal assessment systems to monitor test score quality*. Paper presented at the annual meeting of the

- National Council on Measurement in Education. San Diego, CA.
- Brandt, C., Lyons, S., An, L., Barnes, S., & Ho, A. D. (2022, April 22). *Understanding the effects of the pandemic when the state test is not available*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Diego, CA.
- Shear, B., Ho, A. D., & Reardon, S. F. (2021, June 9). *Models for aggregate growth and progress using multiyear, multicohort datasets*. Paper presented at the annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Klugman, E., & Ho, A. D. (2021, June 10). How can released state test items support interim assessment purposes in an educational crisis? Paper presented at the annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Reardon, S. F., Fahle, E., Shear, B., & Ho, A. D. (2020, March 13). *Educational opportunity in U.S. schools: Using population data to describe learning across space and time*. Paper intended for presentation at the cancelled spring meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Shear, B., & Ho, A. D. (2020, March 13). *Improving the precision and interpretation of aggregate school growth metrics*. Paper intended for presentation at the cancelled spring meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Ho, A. D., Reardon, S. F., & Kalogrides, D. (2019, November 9). Validation methods for aggregate-level test scale linking: A case study mapping school district test score distributions to a common scale. Paper presented at the annual meeting of the Association for Public Policy Analysis and Management. Denver, CO.
- Bertling, M., & Ho, A. D. (2019, April 7). *Demographics and differential advangates in college admissions retesting*. Paper presented at the annual meeting of the National Council on Measurement in Education. Toronto, Canada.
- Ho, A. D. (2019, April 6). *Big data: Analytics, Privacy, and implications for education research*. Invited Dean's Salon. George Washington Graduate School of Education and Human Development. Toronto, Canada.
- Thng, Y. T., & Ho, A. D. (2019, April 6). A critique of predictive methods in evidence-based standard setting. Poster presented at the annual meeting of the National Council on Measurement in Education. Toronto, Canada.
- Ho, A. D., Shear, B., Reardon, S. F., & Fahle, E. (2018, April 16). *Rise and convergence of state proficiency standards in the common core era*. Paper presented at the annual meeting of the National Council on Measurement in Education. New York, NY.

- Shear, B., Ho, A. D., Reardon, S. F., & Fahle, E. (2018, April 16). *Mapping proficiency standards using heteroskedastic ordered probit models and NAEP-based linear linking*. Paper presented at the National Council of Measurement in Education. New York, NY.
- Yee, D., & Ho, A. D. (2018, April 16). The sensitivity of test-based school growth metrics to transformations of scale. Paper presented at the National Council on Measurement in Education. New York, NY.
- Ho, A. D., Reardon, S. F., & Kalogrides, D. (2017, April 28). *Linking U.S. school test score distributions to a common scale*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Antonio, TX.
- Quinn, D., & Ho, A. D. (2017, April 29). An ordinal approach to decomposing test score gaps. Paper presented at the annual meeting of the National Council on Measurement in Education. San Antonio, TX.
- Bertling, M., & Ho, A. D. (2017, April 30). *Demographics and differential advantages in college admissions retesting*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Antonio, TX.
- Quinn, D., & Ho, A. D. (2017, March 2). An ordinal approach to decomposing test score gaps.

  Paper presented at the annual meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Jackson, C., & Ho, A. D. (2016, April 12). *Refining and raising the reliability of classroom observations*. Paper presented at the annual meeting of the American Educational Research Association. Washington, DC.
- Wong, T., Lichtenstein, D., Whitehill, J., Lopez, G., Chuang, I., & Ho A. D. (2016, April 8). *The impact of instructor interaction in Massive Open Online Courses*. Paper presented at the annual meeting of the American Educational Research Association. Washington, DC.
- Reardon, S. F., Kalogrides, D., & Ho, A. D. (2016, March 4). *Mapping U.S. school district test score distributions onto a common scale, 2009-2013.* Paper presented at the spring meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Castellano, K. E., & Ho, A. D. (2015, April 18). *The relevance of normality assumptions in ordered probit models*. Paper presented at the annual meeting of the National Council on Measurement in Education. Chicago, IL.
- Ho, A. D. (2014, April 5). Between the ordinal and the interval: Pliable scales, plausible transformations. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA

- Shear, B., Castellano, K., Reardon, S. F., & Ho, A. D. (2014, March 7). Simultaneous estimation of multiple achievement gaps from ordinal proficiency data. Paper presented at the spring meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Reardon, S. F., Ho, A. D., & Kalogrides, D. (2013, April 29). *Addressing measurement error and sampling variability in nonparametric gap estimation*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Ho, A. D., & Reardon, S. F. (2013, April 29). *Practical achievement gap estimation in a nonparametric framework*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Reardon, S. F., Ho, A. D., & Kalogrides, D. (2013, April 30). *Addressing sampling variability in nonparametric gap estimation*. Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
- Ho, A. D., & Reardon, S. F. (2013, April 30). *Practical achievement gap estimation in the NCLB era*. Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
- Ho, A. D. (2013, April 30). Off track: Problems with "on track" inferences in empirical and predictive standard setting. Paper presented at the annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Castellano, K. E., & Ho, A. D. (2013, April 27). *A practitioner's guide to growth models.*Preconference Workshop. Annual meeting of National Council on Measurement in Education. San Francisco, CA.
- Ho, A. D., & Kane, T. J. (2013, March 15). *The reliability of classroom observations by school personnel*. Annual conference of the Association for Education Finance and Policy. New Orleans, Louisiana
- Reardon, S. F., & Ho, A. D. (2013, March 8). *Estimating achievement gaps from NCLB-type categories*. Invited Symposium. Society for Research on Educational Effectiveness. Washington, DC.
- Ho, A. D. (2011). Lord's paradox and the use of growth and value-added models for school accountability. Paper presented at the 2011 International Meeting of the Psychometric Society, Hong Kong, China.
- Ho, A. D. (2011). A psychometrician's perspective on consortia approaches to measuring teacher effectiveness. Paper presented at the 2011 meeting of the American Educational Research Association, New Orleans, LA.

- Ho, A. D., & Reardon, S. F. (2011). Estimating achievement gaps from test scores reported in ordinal "proficiency" categories. Paper presented at the 2011 meeting of the American Educational Research Association, New Orleans, LA.
- Ho, A. D. (2010). Beyond the bubble: Disproportionate gains at the "proficiency" cut score across state tests and NAEP. Paper presented at the 2010 meeting of the American Educational Research Association, Denver, CO.
- Ho, A. D. (2009). *Graphical methods for comparing trends, gaps, and gap trends across tests.*Paper presented at the 2009 meeting of the National Council on Measurement in Education, San Diego, CA.
- Ho, A. D. (2009). A three-level hierarchy of perspectives on the vertical-scale-sensitivity of growth models. Paper presented at the 2009 meeting of the American Educational Research Assocation, San Diego, CA.
- Ho, A. D. (2008). Using parametric assumptions to frame trends in categorical proficiency data under the U.S. No Child Left Behind Act. Presented at the 2008 International Meeting of the Psychometric Society, Dover, New Hampshire.
- Ho, A. D., & Magda, T. R. (2008). *The dependency of growth models on proficiency standards*. Paper presented at the 2008 annual meeting of the National Council on Measurement in Education, New York, New York, and the National Conference on Student Assessment, Orlando, Florida.
- Furgol, K. E., & Ho, A. D. (2008). *Is NCLB inflating trends at proficiency? A nonparametric, cross-state analysis of trends across cut scores*. Poster presented at the 2008 annual meeting of the National Council on Measurement in Education, New York, New York
- Magda, T. R., & Ho, A. D. (2008). Comparing trends at different cut scores: Distribution-wide NCLB and NAEP comparisons from 2003 to 2007. Paper presented at the 2008 annual meeting of the American Educational Research Association, New York, New York.
- Thiessen, B. A., Magda, T. R., & Ho, A. D. (2008). *Nonparametric comparisons of high-stakes and low-stakes trends and gaps: 2003-2007*. Paper presented at the 2008 annual meeting of the American Educational Research Association, New York, New York.
- Ho, A. D. (2007). *Probability-Probability (PP)-based trend statistics for more than two time points*. Paper presented at the 2007 International Meeting of the Psychometric Society, Tokyo, Japan.
- Ho, A. D. (2007). *State-NAEP standard mappings: Cautions and alternatives*. Invited presentation at the National Conference on Large-Scale Assessment, Council of Chief State School Officers, Nashville, Tennessee.

- Ho, A. D. (2007). Describing the pliability of growth statistics under transformations of the vertical scale. Paper presented at the 2007 annual meeting of the National Council on Measurement in Education, Chicago, Illinois.
- Magda, T. R., & Ho, A. D. (2007). A distribution-wide view of high-stakes test score trends.

  Paper presented at the 2007 annual meeting of the American Educational Research
  Association, Chicago, Illinois.
- Ho, A. D. (2006). Describing the pliability of effect-size based trend and gap statistics under monotone transformations. Paper presented at the 2006 International Meeting of the Psychometric Society, Montreal, Canada.
- Ho, A. D. (2006). Discrepancies between score trends on NAEP and state tests: An analysis using metric-free statistics. Paper presented at the 2006 annual meeting of the American Educational Research Association, San Francisco, California.
- Lukoff, B., Wei, X., Shen, X., Ho, A. D., & Haertel, E. H. (2006). *Using test content to address trend discrepancies between NAEP and California state tests*. Paper presented at the 2006 annual meeting of the American Educational Research Association, San Francisco, California.
- Ho, A. D., & Haertel, E. H. (2005). *Metric-free methods for evaluating and interpreting gaps between test-score distributions*. Paper presented at the 2005 annual meeting of the American Educational Research Association, Montreal, Canada.
- Ho, A. D., & DiBello, L. V. (2004). *Policy applications of the fusion model for skills diagnosis*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, California.
- Ho, A. D., & Haertel, E. H. (2003). *Criterion-referenced testing: An idea in need of a theory*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, Illinois.

#### BOARDS, PANELS, COMMISSIONS, TESTIMONY, and SERVICE

California Department of Education (2022-present). Technical advisory group member.

**ETS Visiting Panel on Research** (2021-present). Panelist.

Rhode Island Technical Advisory Committee (2021-present). Committee member.

**FutureEd** (2020-present). Advisory board.

Massachusetts Comprehensive Assessment System, Massachusetts Department of Elementary and Secondary Education (2018-present). Technical advisory committee member.

**Carnegie Foundation for the Advancement of Teaching** (2017-present). Board member.

Curriculum Associates (2014-present). Technical advisory committee member.

New York Technical Advisory Committee (2012-present). Committee Member

**Texas Technical Advisory Committee** (2011-present). Committee Member.

National Council on Measurement in Education (2006-present). President (2024). Vice President and President Elect (2023) Board member (2018-2021). Task Force on Foundational Competencies in Educational Measurement (Chair, 2021-2023). Program Chair (2015-2016). Newsletter Advisory Committee (2014-2015). Training Session Presenter: Tips for Graduate Students (2006-2012). Brenda H. Loyd Outstanding Dissertation Award Committee (2011-2012)

American Educational Research Association (2006-present). Chair, Government Relations Committee. Member, Palmer O. Johnson Memorial Award Award Committee. Chair, Research Advisory Committee. Member, Government Relations Committee. JEBS Management Committee. Minority Fellowship Advisory Committee (2006-2009).

**Spencer Foundation.** Lyle Award review panel (2017-2019). Preparation for Transformative Research Task Force (2023-2024).

#### **Expert Witness Testimony.**

2023: Cayla J., et al., v. State of California, et al. [Report] [Addendum]

2020: Delaware Public Schools Litigation. [Report] [Rebuttal]

**Department of Defense** (2022-2023). Panel member on initiatives and assessments (NLSY).

**National Academy of Sciences, Engineering, and Medicine** (2022). Panel on opportunities for the National Assessment of Educational Progress in an age of AI and pervasive computation: A pragmatic vision. Panelist.

ACT (2015-2021). Technical advisory committee member.

National Assessment Governing Board (2012-2020). Board member.

Committee on Standards, Design, and Methodology. Chair (2015-2020).

Research Committee, Harvard University Vice Provost for Advances in Learning (2015-2019). Chair.

Harvard University Presidential Task Force on Inclusion and Belonging (2016-2018).

Subcommittee chair for Demographic Realities.

HarvardX Research Committee (2012-2018). Chair.

## Gordon Commission on the Future of Assessment in Education (2011-2013).

Commissioner.

#### **Institute of Education Sciences Review Panel** (2012)

Statistics and Modeling Review Panel Member.

### **College Board Pathway Linking Advisory Team (2011-2012)**

Advisory Team Member.

Assessing Teaching Collaboratory, Carnegie Foundation for the Advancement of Teaching (2011). Collaborator.

# Aspen Institute (2011, April)

Faculty expert at the Aspen Senior Congressional Education Staff Network, on Standards and Assessment: Implications of the Common Core and Assessments

### **Experts Bringing Evidence to Practitioners** (2009, 2010)

IES-funded REL initiative for four talks, in Chicago, Anchorage, Seattle, and Eugene, entitled "Interpreting Test Score Trends and Gaps."

#### **National Institute of Statistical Sciences** (2008)

NISS/NESSI Task Force on Full Population Estimates for NAEP (Member)

**Reviewer:** AERA Open (Associate Editor, 2014-2021), Journal of Research on Educational Effectiveness, Educational Researcher, Journal of Educational and Behavioral Sciences, Educational Measurement: Issues and Practice, Educational Assessment, Science, American Educational Research Journal, National Center for Education Statistics.

#### **VARIOUS SPEAKING ENGAGEMENTS (2012-2023)**

- Ho, A. D. (2024, June 26). Building "Foundational Competencies in Educational Measurement": State Perspectives on a New Framework for Assessment Literacy. Panelist. National Conference on Student Assessment. Council of Chief State School Officers. Seattle, WA.
- Ho, A. D. (2024, June 25). District and State Voices in the Revision of the 2014 Standards for Educational and Psychological Testing. Panelist. National Conference on Student Assessment. Council of Chief State School Officers. Seattle, WA.
- Ho, A. D. (2024, June 24). *The Nation's Report Card: 2024 and Beyond A Conversation.* Panelist. National Conference on Student Assessment. Council of Chief State School Officers.

- Seattle, WA.
- Ho, A. D. (2024, June 15). *Measuring Belonging*. Presenter. Millenium Leadership Initiative. Washington, DC.
- Ho, A. D. (2024, April 14). *The Nelson Memo's Implications for Education Research and Data Equity.* Panelist. Invited Session. Annual meeting of the American Educational Research Association. Philadelphia, PA.
- Ho, A. D. (2024, April 13). Foundational Challenges to Foundational Competencies: Debating the Task Force Report. Moderator. Organized Discussion. Annual meeting of the National Council on Measurement in Education. Philadelphia, PA.
- Ho, A. D. (2024, April 12). Reconsidering Assessment Fairness: Extending Beyond the 2014 Standards for Educational and Psychological Testing. Panelist. Invited Session. Annual meeting of the American Educational Research Association. Philadelphia, PA.
- Ho, A. D. (2024, February 22). *Charting our Learning Recovery: Balancing Our Urgency and Our Assets.* Keynote. Great Lakes Symposium. Curriculum Associates. Chicago, IL.
- Ho, A. D. (2023, November 17). Foundational Competencies in Educational Measurement.

  Keynote Address. Pacific Northwest Research on Psychometrics and Applied Statistics.

  Remote from Washington, DC.
- Ho, A. D. (2023, November 16). *Reclaiming "Months of Learning": An Accessible Metric for Aggregate Educational Progress.* Invited Presentation. Reporting and Dissemination Committee. National Assessment Governing Board. Washington, DC.
- Ho, A. D. (2023, November 1). *Bravely Facing Artificial Intelligence for Anti-Racist Leadership.*Presenter. Bravely Confronting Racism in Higher Education. Harvard Graduate School of Education. Remote from Cambridge, MA.
- Ho, A. D. (2023, October 18). Assessment Literacy: Questions to Ask About Educational Tests.
  Invited Presentation. Reporting with Education Research. Education Writers Association.
  Remote from Arlington, MA.
- Ho, A. D. (2023, October 9). *Clear Eyes, Full Hearts, Can't Lose: Improving Assessment Systems by Clarifying Test Purposes*. Opening Keynote. California Assessment Conference. Sacramento, CA.
- Ho, A. D. (2023, August 3). *On NAEP Assessment Calendar Priorities*. Invited Presenter. National Assessment Governing Board. Washington, DC.
- Ho, A. D. (2023, July 17). Big Data in Higher Education. Presenter. Institute for Educational

- Management. Harvard Graduate School of Education. Cambridge, MA.
- Ho, A. D. (2023, June 10). *Measuring Belonging*. Presenter. Millenium Leadership Initiative. Washington, DC.
- Ho, A. D. (2023, May 17). Looking to the Horizon: What's Possible for Measurement & Data Use? Panelist. Measurement and Student Experience. Spencer Foundation. Chicago, IL.
- Ho, A. D. (2023, May 12). *The Four Quadrants of Testing: Improving Assessment Systems by Clarifying Testing Purposes.* Keynote Address. Shandong University. Remote from Arlington, MA.
- Ho, A. D. (2023, April 14). Changing perspectives on test score trends through a crisis. Panelist. Presidential Session. The COVID Effect: Rethinking Learning, Data Systems, and Truth for Justice. Annual meeting of the American Educational Research Association. Chicago, IL.
- Ho, A. D. (2023, April 12). Who measures what and why? Education Rx Podcast.
- Ho, A. D. (2023, March 8). *Measuring change in a changing world: Five principles for analyzing test score trends through a crisis.* Invited seminar. Education Research Section. Princeton, NJ.
- Ho, A. D. (2023, January 25). *Monitoring educational equity: Conceptual and statistical tools*. Invited speaker. Strategic Data Project, Winter Workshop. Center for Education Policy Research. Harvard Graduate School of Education. Remote from Arlington, MA.
- Ho, A. D. (2022, November 2). *Bravely interrogating data for anti-racist leadership*. Bravely Confronting Racism in Higher Education. Program for Professional Education. Harvard Graduate School of Education. Remote from Cambridge, MA.
- Ho, A. D. (2022, September 26). *The fragile compatibility of test scores and progressive pedagogy.* Professional Development Center. Hanahauoli School. Remote from Arlington, MA.
- Ho, A. D. (2022, August 29). *Strength in numbers.* 8x8 Orientation Session. Harvard Graduate School of Education, Cambridge, MA.
- Ho, A. D. (2022, August 3). *Improving through-year assessment systems through systematic validation*. Keynote Address. Building a Better Assessment Future. Michigan Assessment Consortium. East Lansing, MI.
- Ho, A. D. (2022, August 3). Clear eyes, full hearts, can't lose: Improving assessment systems by clarifying test purposes. Keynote Address. Building a Better Assessment Future.

  Michigan Assessment Consortium. East Lansing, MI.

- Ho, A. D. (2022, June 15). *Looking towards solutions for data collection*. Panelist. Chief State School Officers Retreat. Hunt Institute. Cary, NC.
- Ho, A. D. (2022, June 8). *Impact and Measurement*. Harvard Data Science Initiative. Remote from Arlington, MA.
- Ho, A. D. (2022, June 4). *Digital DEIB: Measuring Belonging*. Presenter. Millenium Leadership Initiative. Remote from Arlington, MA.
- Ho, A. D. (2022, May 21). *Testing*. Speaker. Homecoming. Harvard Graduate School of Education. Cambridge, MA.
- Ho, A. D. (2022, May 13). *Place-Based Education Investment: Promise Neighborhoods and Student Academic Outcomes* (Alexandra Cooperstock). Discussant. Stanford Educational Data Archive Conference. Russell Sage Foundation and William T. Grant Foundation. Remote from Arlington, MA.
- Ho, A. D. (2022, April 24). *Measuring Equity: How Do We Measure Equity in Schools at Scale*Chair and Panelist. Presidential Session. Annual Meeting of the American Educational Research Association. San Diego, CA.
- Ho, A. D. (2022, April 23). A Pragmatic Future for NAEP: Containing Costs and Updating Technologies. Presenter. Annual Meeting of the American Educational Research Association. San Diego, CA.
- Ho, A. D. (2022, April 23). *Measuring the impact of COVID: Methodological challenges in understanding unfinished learning*. Moderator. Annual meeting of the National Council on Measurement in Education. San Diego, CA.
- Ho, A. D. (2022, April 22). *Interpreting COVID-19 Test Scores: Mode Effects and Missing Data*. Discussant. Annual meeting of the National Council on Measurement in Education. San Diego, CA.
- Ho, A. D. (2022, April 22). *Test Optional: Current Trends and Effects on Applications and Admissions*. Discussant. Annual meeting of the National Council on Measurement in Education. San Diego, CA.
- Ho, A. D. (2022, April 22). *Methods to Investigate the Impact of COVID-19 on Assessment Results*. Discussant. Annual meeting of the National Council on Measurement in Education. San Diego, CA.
- Ho, A. D. (2022, April 7). Five principles for reporting test score trends through a crisis. Invited speaker. Educational Evaluation and Policy Analysis Speaker Series. North Carolina State

- College of Education. Remote from Arlington, MA.
- Ho, A. D. (2022, March 24). *Monitoring educational equity: Conceptual and statistical tools*. Invited speaker. Strategic Data Project, Spring Institute. Center for Education Policy Research. Harvard Graduate School of Education. Remote from Arlington, MA.
- Ho, A. D. (2022, March 23). A Pragmatic Future for NAEP: Containing Costs and Updating Technologies. Presenter. National Assessment Governing Board. Remote from Cambridge, MA.
- Ho, A. D. (2022, February 3). *Monitoring educational equity: Conceptual and statistical tools*. Invited speaker. Strategic Data Project, Winter Workshop. Center for Education Policy Research. Harvard Graduate School of Education. Remote from Arlington, MA.
- Ho, A. D. (2022, January 28). Test validation for a crisis: Five practical heuristics for the best and worst of times. Invited speaker. Interdisciplinary Seminar on Statistical Methodology for Social and Behavioral Research. University of Connecticut, Statistical and Applied Mathematical Sciences Institute, New England Statistical Society. Remote from Arlington, MA
- Ho, A. D. (2022, January 26). *Considerations for research during COVID and recovery*. Panelist. Institute for Education Sciences, Principal Investigator meeting. Remote from Arlington, MA.
- Ho, A. D. (2022, January 19). *Do my child's test scores really matter?* Notes from the Backpack: A PTA Podcast.
- Ho, A. D. (2021, December 16). *The future of assessments*. Panelist. Texas 2036, HCM Strategists. Remote from Arlington, MA.
- Ho, A. D. (2021, December 2). *Right-sizing educational testing*. Speaker. Interamerican Development Bank. Remote from Arlington, MA.
- Ho, A. D. (2021, November 22). *Test validation for a crisis: Five practical heuristics for the best and worst of times*. Keynote address. Michigan Educational Research Association. Remote from Arlington, MA
- Ho, A. D. (2021, October 29). A psychometrician's thoughts about survey design. Invited speaker. Healthcare Quality and Safety. Harvard Medical School. Remote from Arlington, MA.
- Ho, A. D. (2021, September 22). *Back to school: Moving forward from here*. Panelist. Education Now, Harvard Graduate School of Education. Remote from Arlington, MA.
- Ho, A. D. (2021, August 26). Right-sizing educational testing. Panelist. Reopening Schools in

- Brazil. Lemann Foundation. Remote from Arlington, MA.
- Ho, A. D. (2021, July 26). *The past, present, and future of standardized testing*. Panelist. Hunt-Kean Leadership Fellows Webinar Series. Remote from Arlington, MA.
- Ho, A. D. (2021, July 16). *How can data "tell the truth"? How can the truth help?* Invited speaker. Ferguson Institute. Curriculum Associates. Boston, MA.
- Ho, A. D. (2021, June 11). Rosetta Stone or Tower of Babel? Debating methods for NAEP-linked aggregate scores. Discussant. Annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2021, June 11). *The Impact of COVID-19 on Educational Measurement, Part 2:*Admissions and Certification. Discussant. Annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2021, June 10). *The Impact of COVID-19 on Educational Measurement, Part 1: K-12 Assessment.* Discussant. Annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Reardon, S. F., Ho, A. D., Fahle, E., & Shear, B. (2021, June 7). *Using school-level data from the Stanford Education Data Archive*. Short Course. Annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2021, June 3). *The use of tests and assessment data as admissions criteria for selective public schools.* Panelist. Bridges Collaborative National Convening. Remote from Arlington, MA.
- Ho, A. D. (2021, May 25). *Protecting aggregate trends: Tensions in NAEP and state testing.*Panelist. Annual meeting of the National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2021, May 24). *Unfinished learning: What tests will and won't tell us this year.*Keynote moderator. Annual Convening of the Strategic Data Project. Remote from Arlington, MA.
- Ho, A. D. (2021, May 3). What reporters need to know about state testing in 2021. Panelist. National Seminar of the Education Writers Association. Remote from Arlington, MA.
- Ho, A. D. (2021, April 15). Step up and stand down: Improving reporting and use of state test scores in 2021. Presenter. Briefing on State Assessment. Aspen Education Congressional Network. Remote from Arlington, MA.
- Ho, A. D. (2021, March 31). Asynchronicity and assessment as twin cornerstones of online

- *learning: Lessons from Massive Open Online Courses.* Speaker. Visiting Professor Grand Rounds, Harvard Medical School. Remote from Arlington, MA.
- Ho, A. D. (2021, March 18). Speaking "tsk-tsk" to power: How can measurement experts advance the causes of equity and racial justice. Speaker. COVID Webinar Series, National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2021, February 23). Expecting the unexpected: Comments on Keng's "Analysis Framework for Assessments in 2021." Discussant. Technical Issues in Large-Scale Assessment, Council of Chief State School Officers. Remote from Arlington, MA.
- Ho, A. D. (2021, January 13). *Rethinking assessment: What 2020 has taught us about assessment.* Panelist. Teaching in Unprecedented Times: A Fall 2020 Showcase. Harvard Initiative on Teaching and Learning, Office of the Vice Provost for Advances in Learning, Harvard University. Remote from Arlington, MA.
- Ho, A. D. (2020, October 27). *Indicators of education equity: Monitoring educational equity and building educational equity indicator systems.* Discussant. Webinar on building educational equity indicator systems. National Academies of Sciences, Engineering, and Medicine. Remote from Arlington, MA.
- Ho, A. D. (2020, August 4). *Teaching and learning "Educational Measurement": Defining the discipline?* Presenter. National Council on Measurement in Education. Remote from Arlington, MA.
- Ho, A. D. (2019, September 17). *The purposes of assessment in higher education*. Harvard Higher Education Leaders Forum. Cambridge, MA.
- Ho, A. D. (2019, July 16). *Using assessment data to measure and evaluate growth.* Plenary presentation. Feruson Institute on the Evolution of Data. Curriculum Associates. Cambridge, MA.
- Ho, A. D. (2019, June 26). How can NCME better serve state assessment professionals? Panelist. National Conference on Student Assessment. Council of Chief State School Officers. Orlando, FL.
- Ho, A. D. (2019, June 14). *The use of test scores in secondary analysis*. Discussant. PIAAC Methodological Seminar. Organisation for Economic Co-operation and Development. Paris, France.
- Ho, A. D. (2019, April 17). *Practice-driven data in Chicago*. Reflector. Carnegie Summit. Carnegie Foundation for the Advancement of Teaching. San Francisco, CA.
- Ho, A. D. (2019, April 7). Testing, testing: Retesting and inequality in large-scale college

- admissions tests. Chair. Annual meeting of the National Council on Measurement in Education. Toronto, Canada.
- Ho, A. D. (2019, April 6). *Practical measurement for improvement science: Principles and applications.* Chair. Annual meeting of the National Council on Measurement in Education. Toronto, Canada.
- Reardon, S. F., Ho, A. D., Fahle, E., & Shear, B. (2019, March 6). *Using school-level data from the Stanford Education Data Archive.* Short course. Spring meeting of the Society for Research on Educational Effectiveness. Washington, DC.
- Ho, A. D. (2018, August 27). *Big data: The distribution of academic achievement in the United States.* 8x8 Orientation Session. Harvard Graduate School of Education, Cambridge, MA.
- Ho, A. D. (2018, June 12). Statistical and psychometric methods for measurement: Scale development and validation. Short course. World Bank. Washington, DC.
- Ho, A. D. (2018, May 11). Linking methods for comparing group means and proficiency cutscores across tests. Invited presentation. Workshop on Quantitative Methods in Education, Health, and the Social Sciences. University of Chicago. Chicago, IL.
- Ho, A. D. (2018, May 11). A very short introduction to educational measurement. Short course. University of Chicago Consortium on School Research. Chicago, IL.
- Ho, A. D. (2018, April 30). Linking 1 million district test score distributions to a common scale: Psychometric methods underlying SEDA. Invited presentation. Institute of Education Sciences – Predoctoral Interdisciplinary Research Training. New York University. New York, NY.
- Ho, A. D. (2018, April 15). Measuring proficiency vs. growth in education; measuring quality vs. improvement in health. Invited session. Annual meeting of the American Educational Research Association. New York, NY.
- Reardon, S. F., & Ho, A. D. (2018, April 15). The Stanford Educational Data Archive (SEDA): Using measurement methods to make public test score data useful. Invited awards presentation. Annual meeting of the National Council on Measurement in Education. New York, NY.
- Ho, A. D. (2018, April 14). Measuring collaboration and engagement using "Big Data": Comments. Discussant. Annual meeting of the National Council on Measurement in Education. New York, NY.
- Reardon, S. F., Ho, A. D., Fahle, E., & Shear, B. (2017, April 30). *Stanford Education Data Archive: Training session.* Short course. Annual meeting of the National Council on Measurement

- in Education. New York, NY.
- Ho, A. D. (2018, February 14). *The role of measurement in the "big data" era*. Frank B. Womer Lecture in Measurement and Assessment. University of Michigan. Ann Arbor, MI.
- Ho, A. D. (2018, February 14). *Made to be broken: The paradox of student growth prediction*. Frank B. Womer Invitational Keynote. Michigan School Testing Conference. Ann Arbor, MI.
- Ho, A. D. (2017, August 25). The Reach of MOOCs. Podcast. The Crush, with Davin Sweeney.
- Ho, A. D. (2017, August 23). *Big data: The distribution of academic achievement in the United States.* 8x8 Orientation Session. Harvard Graduate School of Education, Cambridge, MA.
- Ho, A. D. (2017, June 29). *Measure what matters: Options for high school assessment and accountability*. Invited panelist. National Conference on Student Assessment. Council of Chief State School Officers. Austin, TX.
- Ho, A. D. (2017, June 13). *Of telescopes and microscopes: Big data in education*. Invited address. Curriculum Associates. Billerica, MA.
- Ho, A. D. (2017, May 12). *Big data as public good: An example from education.* Keynote address. Delaware Data Science Symposium. University of Delaware. Newark, DE.
- Reardon, S. F., Ho, A. D., Fahle, E., & Shear, B. (2017, April 30). *The Stanford Education Data Archive: Using big data to study academic performance.* Short course. Annual meeting of the American Educational Research Association. San Antonio, TX.
- Ho, A. D. (2017, April 28). Advancing educatinal research and student privacy in the "big data" era. Presidential Session Using Big Data: The ethics, dilemmas, and possibilities for educational opportunity. Annual meeting of the American Educational Research Association. San Antonio, TX.
- Ho, A. D. (2017, April 27). Advancing your career in measurement or research methodology: Finding the real meaning of growth, path analysis and curves. Panelist. Division D Graduate Student Seminar. Annual meeting of the American Educational Research Association. San Antonio, TX.
- Ho, A. D. (2017, March 13). A cross-disciplinary look: How do you measure quality? Panelist. High Quality Health Systems. Harvard T.H. Chan School of Public Health. Boston, MA.
- Reardon, S. F., Ho, A. D., Fahle, E., & Shear, B. (2017, March 1). *The Stanford Education Data Archive: Using big data to study academic performance.* Short course. Society for Research on Educational Effectiveness. Washington, DC.

- Ho, A. D. (2017, February 6). *Linking U.S. school district test score distributions to a common scale*. Colloquium speaker. Education Policy and Program Evaluation program. Harvard Graduate School of Education. Cambridge, MA.
- Reardon, S. F., & Ho, A. D., Fahle, E., & Shear, B. (2017, Jaunary 27). *The Stanford Education Data Archive: Using big data to study academic performance.* Short course. University of California, Los Angeles, CA.
- Reardon, S. F., & Ho, A. D. (2017, January 26). 200 million test scores and what do we know? Featured speakers. Spencer Foundation. Board Meeting. Los Angeles, CA.
- Ho, A. D. (2016, December 7). *Measurement: 7 key statistical and psychometric principles for policy researchers*. Causal Inference in Education Policy Research Short Course. University of Michigan. Ann Arbor, MI.
- Ho, A. D. (2016, December 7). Linking U.S. school district test score distributions to a common scale. Causal Inference in Education Policy Research Seminar. University of Michigan. Ann Arbor, MI.
- Ho, A. D. (2016, December 5). *Pass/Fail: How test-based accountability stacks up.* Debate moderator. Harvard Graduate School of Education: Askwith debates. Cambridge, MA.
- Ho, A. D. (2016, November 30). *The 12-hour degree? New measures of student engagement in online and residential courses.* Featured speaker. Harvard Graduate School of Education: Alumni Event. New York, NY.
- Ho, A. D. (2016, November 10). *The 12-hour degree? Open online courses and asynchronous learning*. Keynote address. International Baccalaureate: Higher Education Symposium. Medford, MA.
- Ho, A. D. (2016, August 9). Advancing educational research and student privacy in the "big data" era. Opening address. Workshop on big data in education: Balancing research needs and student privacy. National Academy of Education. Washington, DC.
- Ho, A. D. (2016, July 2). The mismeasurement of MOOCs: Lessons from Massive Open Online Courses about metrics for online learning. Keynote address. Annual meeting of the International Test Commission. Vancouver, Canada.
- Ho, A. D. (2015, June 2). *MOOCs*. Panelist. Advancing data-intensive research in education. National Science Foundation. Arlington, VA.
- Ho, A. D. (2015, April 19). A major assessment literacy campaign aimed at parents, policy makers, and students. Panelist. Annual meeting of the American Educational Research

- Association. Chicago, IL.
- Ho, A. D. (2015, April 18). *Technical investigation of SGPs/VAMs for teacher evaluation*. Discussant. Annual meeting of the National Council on Measurement in Education. Chicago, IL.
- Ho, A. D. (2015, April 18). MOOC hype vs. MOOC research: The role of cross-institutional collaborations in advancing science and equity. Panelist. Annual meeting of the American Educational Research Association. Chicago, IL.
- Ho, A. D. (2015, April 16). *Massive Open Online Course students in context: Equity, motivation, and performance*. Coordinated session discussant. Annual meeting of the American Educational Research Association. Chicago, IL.
- Castellano, K. E., & Ho, A. D. (2015, April 15). *A practitioner's guide to growth models*. Workshop. Annual meeting of the National Council on Measurement in Education. Chicago, IL.
- Ho, A. D. (2015, April 8). *Translating learning research into practice*. Panel moderator. Online learning: Shaping the future of higher education on and off campus. Cambridge, MA.
- Ho, A. D., & Castellano, K. E. (2015, March 4). A practitioner's guide to growth models.

  Workshop. Annual meeting of the Society for Research on Educational Effectiveness.

  Washington, DC.
- Ho, A. D. (2014, November 14). *Data privacy and big eata*. Plenary Session Panelist. Annual meeting of the National Academy of Education. Washington, DC.
- Reardon, S. F., & Ho, A. D. (2014, October 30-31). *Gapapalooza: Estimation and analysis of achievement gaps using coarsened data*. Conference. Stanford, CA.
- Ho, A. D. (2014, October 22). *Made to be broken: The paradox of student growth prediction*. Keynote address. Annual meeting of the Northeastern Educational Research Association. Trumbull, CT.
- Ho, A. D. (2014, May 7). Massive Open Online Courses (MOOCs) and the promise and pitfalls of Big Data. Invited presentation. ETS. Princeton, NJ.
- Ho, A. D. (2014, April 16). *Between the ordinal and the interval: Pliable scales, plausible transformations.* Invited presentation. New Directions in Assessment. Cambridge, MA.
- Ho, A. D. (2014, March 6). *Item Response Theory and the fragility of educational test score scales.* Preconference Workshop. Society for Research on Educational Effectiveness. Washington, DC.

- Ho, A. D. (2013, June 25). *edX, HarvardX, and open online education*. Institute for Management and Leadership in Education. Programs in Professional Education. Harvard Graduate School of Education. Cambridge, MA.
- Ho, A. D. (2013, June 18). *Building assessment literacy*. Data Wise. Programs in Professional Education. Harvard Graduate School of Education. Cambridge, MA.
- Ho, A. D. (2013, June 18). *A practitioner's guide to growth models.* Webinar. Strategic Data Project. Center for Education Policy Research. Harvard University. Cambridge, MA.
- Ho, A. D. (2013, June 17). Estimating achievement gaps from proficiency-level data. Technical Issues in Large-Scale Assessment. Spring meeting of the State Collaboratives on Assessment and Student Standards, Council of Chief State School Officers. National Harbor, MD.
- Ho, A. D. (2013, June 6). Between the ordinal and the interval: Educational score scales and the "scale dependence" of analytical results. Center for Education Policy Analysis. Stanford University. Stanford, CA.
- Ho, A. D. (2013, May 8). *The art of teaching: Evidence and assessment*. Invited Speaker. Annual conference of the Harvard Initiative for Teaching and Learning. Cambridge, MA.
- Ho, A. D. (2013, May 7). *HarvardX, HGSE, and education's digital future*. Invited Speaker. Harvard Graduate School of Education. Dean's Leadership Council. New York, NY.
- Ho, A. D. (2013, April 29) *The Gordon Commission: Perspectives on the future of assessment.*Presidential Session. Discussant. Annual meeting of the American Educational Research Association. San Francisco, CA.
- Ho, A. D. (2013, April 28). The roles of the testing profession in addressing problems of educational policy and practice. Discussant. Robert L. Linn Distinguished Address Award (given to E. H. Haertel). Annual meeting of the American Educational Research Association. San Francisco, CA.
- Ho, A. D. (2013, April 28). *Projection models are superior to Student Growth Percentiles for K-12 accountability systems*. Debate of the Day. Annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Ho, A. D. (2013, March 7). Test score scales and why they matter: Practical methods for assessing the scale-dependence of analytic results. Preconference Workshop. Society for Research on Educational Effectiveness. Washington, DC.
- Ho, A. D. (2013, January 16). Unstable ground: The dependence of test-based accountability

- metrics on educational score scales. Distinguished Lecture. Pearson Center for Applied Psychometric Research. University of Texas at Austin. Austin, TX.
- Ho, A. D. (2012, October 18). Accuracy, transparency, and incentives: Contrasting criteria for evaluating growth models. Maryland Assessment Research Center for Education Success (MARCES) Assessment Conference: Value Added Modeling and Growth Modeling with Particular Application to Teacher and School Effectiveness. College Park, MD.
- Ho, A. D. (2012, August 9). Learning from recent advances in measuring teacher effectiveness.

  Discussant. Institute of Education Sciences, U.S. Department of Education, Washington, DC.
- Ho, A. D. (2012, June 29). *Cross-cutting issues in recent state growth modeling efforts.*Discussant. National Conference on Student Assessment, Minneapolis, MN.
- Castellano, K. E., & Ho, A. D. (2012, May 9). A practitioner's guide to growth models. Joint presentation to the Accountability Systems and Reporting (ASR) and the Technical Issues in Large-Scale Assessment (TILSA) working groups. Spring meeting of the State Collaboratives on Assessment and Student Standards (SCASS), Council of Chief State School Officers (CCSSO), National Harbor, MD.
- Ho, A. D. (2012, April 15). NCES initiative on the future of NAEP: Future links, future reporting metrics. NAEP Studies Special Interest Group. Annual meeting of the American Educational Research Association, Vancouver, BC.
- Ho, A. D. (2012, April 15). *Value added in Arizona: Specifics, statistics, and impact*. Discussant. Division H Research, evaluation, and assessment in schools. Annual meeting of the American Educational Research Association, Vancouver, BC.
- Ho, A. D. (2012, April 14). *Public hearing on the Gordon Commission on the Future of Assessment in Education*. Presidential Session. Annual meeting of the American Educational Research Association, Vancouver, BC.
- Ho, A. D. (2012, April 13). *Paths to the professoriate*. Workshop. Tips for graduate students: Advice for finishing school, obtaining a job, and starting a career. Annual meeting of the National Council on Measurement in Education, Vancouver, BC.
- Ho, A. D. (2012, April 6). *Truth and consequences: A quantitative panel*. Discussant. Student Research Conference, Harvard Graduate School of Education, Cambridge, MA.
- Ho, A. D. (2012, March 26). A(nother) classification scheme for growth models: Why it's getting harder (and more important) to describe what we mean by "growth." Invited speaker. Joint seminar for the College Board, ETS, and the Law School Admissions Council, Princeton, NJ.

- Ho, A. D. (2012, March 5). Five things to remember about educational assessment. Guest lecturer for 11.125: Understanding and Evaluating Education. Massachusetts Institute of Technology, Cambridge, MA.
- Ho, A. D. (2012, February 8). A practitioner's guide to growth models. Joint presentation to the Accountability Systems and Reporting (ASR) and the Technical Issues in Large-Scale Assessment (TILSA) working groups. Winter meeting of the State Collaboratives on Assessment and Student Standards. Council of Chief State School Officers (CCSSO), San Antonio, TX.
- Ho, A. D. (2012, February 3). *Good measures of teaching effectiveness*. Inaugural symposium for the Harvard Initiative for Learning and Teaching, Cambridge, MA.

#### **TEACHING**

# Harvard Graduate School of Education, Cambridge, MA. (Fall, 2010 through Spring, 2024)

- S-061 Statistical and Psychometric Methods for Educational Measurement (Fall: 2010-2013, 2015-2021. January: 2023. Spring: 2024.)
- S-052 Intermediate and Advanced Statistical Methods for Applied Educational Research (Spring, 2018-2021, 2023. Fall: 2022-2023.)
- S-052 Applied Data Analysis (Spring, 2013, 2015-2017)
- S-030 Applied Regression and Data Analysis (Spring 2011, 2012)

# University of Iowa, Iowa City, IA. (Spring, 2006 through Spring, 2009)

Introductory and Intermediate Statistics, Factor Analysis and Structural Equation Models

# Stanford University, Stanford, CA. (Autumn, 2002 through Winter, 2003)

Introductory Statistics and Regression Analysis (Teaching Assistant)

# The Thacher School, Ojai, CA. (Autumn, 1999 to Spring, 2000)

AP and Freshman Physics, Advising.

# Punahou School, Honolulu, HI. (Summers, 1999-2001)

Creative Writing, Physics.