

Mark Alexander Constas
 Applied Economics and Policy
 Charles H. Dyson School of Applied Economics & Management
 SC Johnson College of Business
 Cornell University, Ithaca, NY U.S.A.

EDUCATION

- Ph.D. Cornell University, Ithaca, NY, 1987**
 Educational Psychology, specialization in cognitive psychology, research methodology and measurement
- M.S. Cornell University, Ithaca, NY, 1985**
 Educational Psychology, with specialization in cognitive psychology
- B.S. Northeastern University, Boston, MA, 1983**
 Psychology with specialization in experimental psychology

AREAS OF RESEARCH INTEREST/EXPERTISE

- Resilience measurement , with applications to poverty and food security
- Evaluation design, impact evaluation, and assessment tools for program monitoring
- Evidence-based policy for development and humanitarian assistance

GRADUATE FIELD MEMBERSHIP

- Applied Economics and Policy
- Global Development Program

CROSS-DISCIPLINARY AFFILIATIONS AT CORNELL UNIVERSITY

- Tata-Cornell Agriculture and Nutrition Initiative (TCi), Faculty Fellow
- Atkinson Center for a Sustainable Future, Faculty Fellow
- Cornell Institute for Public Affairs
- Center for Sustainable Global Enterprise, SC Johnson College of Business

PROFESSIONAL EXPERIENCE

- | | |
|--------------|--|
| 2011-present | Associate Professor, International and Development Economics, Charles H., Dyson School of Applied Economics, and Management & International Professor of Agriculture and Life Sciences, Cornell College Business |
| 2003-2011 | Associate Professor, Department of Education, College of Agriculture and Life Sciences, Cornell University |
| 2009-2011 | Director of Graduate Studies, Graduate Field of Education
Cornell University |
| 2000-2003 | Senior Research Advisor and Program Director, Office of the Assistant Secretary, Office of Education Research and Improvement/Institute of Education Sciences, U.S. Department of Education |
| 1999-2000 | Senior Research Scientist, Caliber Associates, Fairfax, VA |
| 1997-1998 | Deputy Head of Department, Department of Education, |

	Faculty of Education, The University of Hong Kong
1994-1998	Associate Professor, Department of Education, Faculty of Education, The University of Hong Kong, Hong Kong
1993-1994	Assistant Professor, College of Education, University of Northern Colorado
1991-1993	Visiting Scholar, College of Education University of Cape Town, South Africa
1988-1991	Assistant Professor, College of Education, University of Northern Colorado
1987-1988	Post Doctoral Fellow, Department of Education, College of Agriculture and Life Sciences, Cornell University, Ithaca, NY

SPONSORED RESEARCH

Total funding secured at Cornell University, approximately \$2M

Modelling the Economic and Welfare Effects of Health Shocks: Brief Resilience Assessment for Viral Epidemics and Diseases in Developing Countries (2020)

Funding agency/entity	Atkinson Center for Sustainability
Principal Investigator.	M. Constas, Cornell University
Award Amount:	\$8,560

Measurement Indicators for Resilience Analysis – MIRA (2015-2016)

Funding agency/entity	Catholic Relief Services
Principal Investigator.	M. Constas, Cornell University
Award Amount:	\$71,000

Empirical Support for Ending Drought Emergencies in Kenya: Analytical Strategies to Inform Investment Decisions (2015-2016)

Funding agency/entity	International Livestock Research Institute
Co-Principal Investigator.	M. Constas, & Chris Barrett, Cornell University
Award Amount:	\$250,000

Technical Assistance: Measurement & Analysis for the Somalia Resilience Program (2015)

Funding agency/entity	World Vision
Principal Investigator.	M. Constas, Cornell University
Award Amount:	\$145,000

Strengthening the Case for Evidence-Based Policy for Development: Contextualized Causal Inference and the Importance of Mechanism (2011-2013)

Funding agency/entity	Institute for Social Science, Cornell University
Principal Investigator.	M. Constas, Cornell University
Co-Principal Investigator	Per Pinstrup-Andersen, Cornell University
Award Amount:	\$5,000

Infrastructure for the Society for Research on Educational Effectiveness (2008-2010)

Funding agency/entity	U.S. Department of Education
Principal Investigator.	L. Hedges, Northwestern University
Co-Principal Investigator	M. Constas, Cornell University
Award Amount:	\$815,000

The Advancement of Education Science: A Proposal for a Scientific Organization (2005-2008)

Funding agency/entity	U.S. Department of Education
Principal Investigator.	M. Conostas, Cornell University
Co-Principal Investigator	L. Hedges, Northwestern University
Award Amount:	\$743,000

Political Transition in the Schools of Hong Kong: An Evaluation of Legislative Intent and Educational Impact (1996-1997)

Funding agency/entity	Sik Sik Yuen Foundation,
Principal Investigator.	M. Conostas, Cornell University
Funding Period:	1996-1997
Award Amount:	\$20,000 (HK)/~\$2,750 (US)

Concepts of Effective Citizenship and the Implementation of Civic Education

Funding agency/entity	University Grants Council, Hong Kong
Principal Investigator.	Wing On Lee, University of Hong Kong
Co-Principal Investigator	M. Conostas, University of Hong Kong
Funding Period:	1995-1998
Award Amount:	\$2.2m (HK) \$300,000 (US)

PUBLICATIONS

Books, Book Chapters, Monographs & Reports

- Conostas, M., Cisse, J., & Knippenberg, E. 2016. *A systematic review of methodologies to measure resilience: An analysis of conceptual presentations, indicators, and estimation procedures*. Report Prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya.
- Conostas, M., Upton, J., Knippenberg, E., & Downie, K. 2016. *Classification of Indicators for Resilience Analysis: An Assessment of Selected Data Sources Focused on Arid and Semi-Arid Lands*. Report Prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya.
- Conostas, M., Frankenberger, T., Knippenberg, E., and Downie, K. 2016. *Building better connections between theories of change and the empirical demands of evidence-based decisions: The case of Kenya's policy on ending drought emergencies*. An Assessment of Selected Data Sources Focused on Arid and Semi-Arid Lands. Report Prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya.
- D'Errico, M., Garbero, A. & Conostas, M. 2016. *Quantitative analysis for resilience measurement: Guidance for constructing variables and exploring relationships among variables*. Technical Working Group. Technical Series No. 7. Rome: Food Security Information Network. . Published by the Food and Agriculture Organization and the World Food Program under the Food Security and Information Network.
- Maxwell, D., Conostas, M., Frankenberger, T., Klaus, D. & Mock, M. 2015. *Qualitative Data and Subjective Indicators for Resilience Measurement. Resilience Measurement*. Technical Working Group. Technical Series No. 4. Rome: Food Security Information Network. Published by the Food and Agriculture Organization and the World Food Program under the Food Security and Information Network.

Books, Book Chapters, Monographs & Reports (cont.)

- Mock, N., Béné C., Conostas M. & Frankenberger T. 2015. *Systems Analysis in the Context of Resilience*. Resilience Measurement Technical Working Group. Technical Series No. 6. Rome: Food Security Information Network. Published by the Food and Agriculture Organization and the World Food Program under the Food Security and Information Network.
- Conostas, M., Frankenberger, T., Hoddinott, J., Mock, N., Romano, D., Bene C., & Maxwell, D. 2014. *A common analytical model for resilience measurement: A general causal framework and some methodological options*. Published by the Food and Agriculture Organization and the World Food Program under the Food Security and Information Network
- Conostas, M., Frankenberger, T., & Hoddinott, J. 2014. *Resilience measurement principles: Toward an agenda for measurement design*. Published by the Food and Agriculture Organization and the World Food Program under the Food Security and Information Network.
- Frankenberger, T., Conostas, M., Nelson, S., & Starr, L. 2014. *Resilience programming among nongovernmental organizations: Lessons for policy makers*. Food Policy Report. International Food Policy Research Institute, Washington, D.C.
- Conostas, M. 2010. Field Experimentation in Education, in Barry McGaw, Penelope Peterson and Eva Baker (Eds.), *The International Encyclopedia of Education*, 3rd Edition, Oxford, UK: Elsevier Press.
- Conostas, M. & Brown, K. 2007. Toward a program of research on scale-up: Analytical requirements and theoretical possibilities. In B. Schneider & S. K. McDonald, *Scale-up in education: Ideas in principle*. (pp. 247-257). Lanham, Maryland: Rowan and Littlefield.
- Conostas, M. & R. Sternberg. (editors) (2006). *Translating educational research and theory into practice*. New York: Lawrence Erlbaum.
- Cooney, J., & M. Conostas. 1993. Analysis of non-linear dynamics in human learning. In M. L. Howe & R. Pasnak (Eds.) (pp. 154-191) *Emerging Themes in Cognitive Development* (Vol. 1). New York: Springer Verlag.

Refereed Journal Articles (published or in press)

- Conostas, M., L. Mattioli, & L. Russo. What are the implications of resilience for development: Some proposed heuristic to promote coherence in resilience-oriented programming and evaluation. *Development Policy Review*. <https://doi.org/10.1111/dpr.12518>
Core indicators for resilience analysis: toward harmonized metrics for resilience analysis
- Jones, L., M. Conostas, S. Verkaart, & N. Mathews. Advancing resilience measurement. *Nature Sustainability*. <https://doi.org/10.1038/s41893-020-00642-x>
- Knippenberg, E, N. Jensen, & M. Conostas. 2019. Quantifying household resilience with high frequency data: Temporal dynamics and methodological options. *World Development*, 121, 1-15.
- Kim, J. Stites, E. Stites, P. Webb, M. Conostas, & D. Maxwell. 2019. The effects of male outmigration on household food security in rural Nepal, *Food Security*, 11, 71-9-732

- Zongrone, A., P. Menon, G. Pelto, J.P. Habicht, K. Rasmussen, M. Constan, F. Vermeulen, A. Khaled, K. Saha, & R. Stoltzfus. 2018. The pathways from a behavior change communication intervention to infant and young child feeding in Bangladesh are mediated and potentiated by maternal self-efficacy. *The Journal of Nutrition*, 148, 259-266.
- Lu, A., K. Dickin, M. Constan, & J. Dollahite. 2017. The relationship between community nutritionists' use of policy, systems and environmental strategies to prevent obesity and its determinants depends on networking. *Public Health Nutrition*, 20(12), 2225-2235.
- Barrett, C. & M. Constan, 2014. Toward a Theory of Development Resilience for International Development Applications. *Proceedings of the National Academy of Sciences*. 111 (4), 14625-14630.
- Frankenberger, T. & M. Constan, 2014. IFPRI 2020 Conference: Building resilience for food security and nutrition security, Addis Ababa, 15-17 of May 2014. A synthesis. *Food Security*. 6 (5), 743-745.
- Rao, N., J. Sun, V. Pearson, E. Liu, M. Constan, M. & P. Engle, 2012. Is something better than nothing? An evaluation of early childhood programs in Cambodia. *Child Development*. 2012 83(3):864-76.
- Capps, D., B. Crawford, & M. Constan, 2012. A Review of Empirical Literature on Inquiry Professional Development: Alignment with Best Practices and a Critique of the Findings. *Journal of Science Teacher Education*, 23(3): 291-318.
- Van der Valk, L., & M. Constan. 2011. A review of recent literature on leadership and social capital: An analysis of the methodological warrants for causal inference. *Adult Education Quarterly*, 61(1), 73-90.
- Kregnow, J., M. Rogers & M. Constan. 2010. Multidimensional Education Research: Managing multiple data streams. *Astronomy Education Review*, 9 (1) xx-xx.
- Constan, M. 2007. Re-shaping the methodological identity of education research: Early signs of the impact of federal policy. *Evaluation Review*, 31(4), 391-399.
- Constan, M., R. Silverman, R., & J. McBride. 2000. The perceived relationship between mathematics and science among pre-service elementary school teachers. *Illinois Schools Journal*, 79 (2), 12-23.
- Constan, M. 1999. Theoretical adequacy and analytical détente - A review of Tests and Examinations: Measuring Abilities and Performance by Lewis Aiken. *Contemporary Psychology*, 44, 229-232.
- Constan, M. 1998. Deciphering postmodern inquiry. *Educational Researcher*, 28 (1),
- Constan, M. 1998. The changing nature of educational research and a critique of postmodernism. *Educational Researcher*. 27(2), 26-33.
- Constan, M. 1997. Apartheid and the socio-political context of education in South Africa: A narrative account. *Teachers College Record*, 98 (4), 682-720.
- Constan, M., & L. Zhang, L.L. 1997. The potential for qualitatively oriented educational research in China (published in Chinese). *Journal of Foreign Studies in Education*. 3, 19-23.
- Constan, M. 1996. Variations in qualitative inquiry and the development of a schematic definition. *Journal of Educational Research*, 11 (2), 7-13.
- Constan, M., & W. Colyn. 1996. Reflections on the study of squatter community schools in South Africa. *Anthropology and Education Quarterly*, 27(4), 587-598.

- Constas, M., & W. Colyn, 1996. Some realities of the study of squatter community schools: A response to Foster. *Anthropology and Education Quarterly*, 27 (4), 607-611.
- Constas, M. 1992. Qualitative analysis as a public event: The documentation of category development procedures. *American Educational Research Journal*, 29, 256-266.
- Constas, M., & J. Francis, 1992. A graphical method for selecting the best sub-set regression model. *Multiple Linear Regression Viewpoints*, 19,16-23.
- Constas, M. 1989. Empirical research of creativity: Possible heuristics for studying a complex phenomenon. *Contemporary Educational Psychology*, 14,276-279.

Presentations (representative sample)

- Constas, M 2020. October. Resilience Evidence for Decision in Development. Hosted by USAID, Horn of Africa and Sahel Virtual Knowledge Share Fair. Promoting Innovation to Build Resilience Against Climate Shocks October 22, 2020. Nairobi, Kenya
- Constas, M 2020. December. Expected Impact of Investments from Resilience Building in South Sudan: Results from a Cost-Benefit Analysis Using a Scenario-Based Approach Hosted by the Partnership for Resilience and Recovery, December 11, 2020, Juba, South Sudan
- Ulimwengu, J. M. d'Errico, and M. Constas, M 2020. December. Expected Impact of Investments from Resilience Building in South Sudan: Results from a Cost-Benefit Analysis Using a Scenario-Based Approach Hosted by the Partnership for Resilience and Recovery, December 11, 2020Juba, South Sudan
- Constas, M. 2019. Evidence requirements for resilience in development. Presented at the World Food Programme, July 12, 2019, Rome, Italy.
- Constas, M. 2019. Resilience as a goal for development: Presented the USAID Nepal mission, Kathmandu, Nepal. February 28, 2019
- Constas, M. 2018. Evidenced based approach for nutritious and affordable food systems: Metrics and strategies for building connections between research evidence and policy. Presented at the annual meeting of the Tata Cornell Initiative, Cornell University, December, Ithaca, NY.
- Constas, M. 2018. Theoretical underpinnings of resilience measurement (moderator and presenter), The Board for International Food and Agriculture Development, May 9, 2018, Washington, D.C.
- Constas, M. 2017. Empirical Requirements of Resilience Measurement Focus on Shocks and Stressors. Presented at the *Resilience Evidence Forum*, United States Agency for International Development October 2-3, Washington, D.C.
- Constas, M. 2017. Resilience and the Measurement of Recovery in Development Settings. *Living on the Precipice: Interdisciplinary Conference on Resilience in Complex Natural and Human Systems University of Waterloo*, Waterloo, Ontario, Canada May 16-17, 2017.
- Constas, M. and P Pingali. 2017. Monitoring and evaluation systems for organizational effectiveness. Tata-Cornell Institute for Agriculture and Nutrition. February 2017, New Delhi, India.
- Constas, M., Jensen, N., Knippenberg, E. 2016. Measurement indicators for resilience analysis (MIRA): A protocol and proof of concept study for high frequency resilience-focused data

- collection (final report). Presented at Catholic Relief Services, Baltimore. MD, September 23, 2016.
- Constas, M. & Mock, N., 2016. Toward harmonized metrics for resilience Analysis. Presented a meeting of the Food Security and Information Network's Resilience Measurement Technical Working Group. Tucson, Arizona, March 2-4, 2016
- Constas, M. 2015. *A structurally integrated matrix of indicators for resilience (SIMI-R)*. 2015. Paper presented a Technical Consultation of the Food Security Information Network and the African Union Committee, Addis Ababa, Ethiopia, 17-19 November, 2015.
- Constas, M. and Downie, K. 2014. *Data architecture for development resilience for ending drought emergencies*. Paper presented at the conference on Information for Meeting Africa's Agricultural Transformation and Food Security Goals, African Union Commission and the Joint Research Centre of European Commission, Addis Ababa, Ethiopia, October 13, 2014.
- Constas, M. 2014. *A common analytical model for resilience measurement: Guidelines from the Resilience Measurement*. Technical Working Group. 2014. Presentation made at *InterAction*, Washington, D.C., December 3, 2014.
- Constas, M. 2014. *Measurement guidelines of the Resilience Measurement Technical Working Group*. Research seminar, *The International Fund for Agriculture Development*, Rome, Italy, November 21, 2014.
- Constas, M. 2014. *Resilience as an Analytical Strategy for Disaster Resilience and Conflict Resilience: Possible Benefits and Potential Pitfalls*. Invited address presented at the Expert Roundtable on Fostering Resilience in Fragile and Conflict-affected Contexts, United Nations Development Program meeting, convened at the Rockefeller Foundation, New York, September 18-19, 2014.
- Constas, M. 2014. *Principles of Resilience Measurement and Activities of the Technical Working Group on Resilience Measurement*. Somalia Resilience Network. World Vision, Nairobi, Kenya. May 19, 2014.
- Constas, M. 2014. *The Need for Improved Metrics of Resilience: The Food Security and Information Network Technical Working Group on Resilience Measurement*. International Food Policy Research Institute 2020 Conference: Building Resilience for Food and Nutrition Security, Addis Ababa, Ethiopia, May 15-17, 2014 [plenary session].
- Zongrone AA, Menon P, Roopnaraine T, Bhuiyan MI, Pelto GH, Constas M, Rasmussen KM, Saha KK, Stoltzfus RJ. 2014. Understanding decision moments in infant feeding trajectories to improve interventions. EB 2014, April 26-30 2014, San Diego, CA.
- Constas, M. (with Russo, L & Mattioli, L.). 2014. *Enhancing resilience measurement and analysis for decision making*, European Commission, European Resilience Forum, Brussels, Belgium, April 28, 2014.

EDITORIAL/REVIEWER RESPONSIBILITIES

CONSULTING EDITOR/REVIEWER

Food Security
World Development
Global Food Security

SERVICE WORK- DEPARTMENT, COLLEGE & UNIVERSITY

2019-present	Committee member, Masters of Professional Studies, Applied Economics and Management, Charles H. Dyson School of Applied Economics.
2019-present	Committee member, Concentration leader for International and Development Economics, Masters of Professional Studies, Applied Economics and Management. Charles H. Dyson School of Applied Economics.
20190-present	Committee, University appeals committee. Cornell University
2016-2017	Engaged Cornell – University-wide Technical Advisory Group for Evaluation
2016-2017	Charles H. Dyson School - Search committee management and organizations position with specialization in diversity and inclusion
2015-2016	Executive Education and Non-Degree Training Programs, Charles, H. Dyson School, College of Agriculture and Life Sciences
2015-2016	Faculty Performance Expectations and Assessments, Charles, H. Dyson School, College of Agriculture and Life Sciences
2012-present	International exchange committee, College of Agriculture and Life Sciences
2009-2011	Department of Education Graduate Awards Committee, committee member
2009-2011	Graduate Field of Education, Director
2009-2011	Graduate Field of Education Research Colloquium, Chair
2009-2010	Committee University-School Collaboration, Office of Community Relations, committee member
2003-2006	Strategic Planning Committee, Department of Education, College of Agriculture and Life Sciences
2003-2006	Evaluation Planning for University Outreach, Office of the Associate Provost for Outreach
2004-2005	Search Committee for Department of Education-American Indian Program, chair
2003-2007	Committee on Grants and Sponsored Research, Chair, Department of Education, College of Agriculture and Life Sciences
2004-2007	Department Colloquium Committee, Chair, College of Agriculture and Life Sciences