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ABOUT THE AUTHORS

**Gerardo L. Blanco** is an Associate Professor of Higher Education at the University of Connecticut. His research explores the intersections of quality, branding, and position taking in the context of global competition in higher education. Gerardo is an internationally engaged scholar, and his research and teaching span across four continents. His work has been published in the *Comparative Education Review*, *Higher Education*, and *Studies in Higher Education*, among others. He was also a Visiting Faculty at Shaanxi Normal University (Xi’an, China), a Visiting Expert at the International Center for Higher Education Research at Kassel University (Germany), and an Erasmus+ Fellow at the John Paul II Catholic University of Lublin (Poland). His recent activity has focused on Canada, Bangladesh, Mexico, and Ethiopia. He has been Program Chair (2013–2016) and Chair (2017–present) of the Higher Education Special Interest Group of the Comparative & International Education Society.

**W. Y. Alice Chan**, Ph.D., is the Executive Director and Co-Founder of the Centre for Civic Religious Literacy (CCRL). Her research in the Faculty of Education at McGill University, Montreal, Canada, explored conceptions and approaches to religious bullying, religious literacy, and preventing violent extremism predominantly in the Canadian and American contexts. She continues this work through CCRL.

**Bruce Collet** is an Associate Professor of Educational Foundations and Inquiry at the School of Educational Foundations and the Leadership and Policy College of Education; Human Development at Bowling Green State University, Ohio, USA. His research considers forced migration and education, immigrant education, education and national identity, and religious minorities and secular schooling.

**Petrina M. Davidson** completed her PhD in Comparative and International Education at Lehigh University. She has an MS in Teaching, Learning, and Leadership with an emphasis on Curriculum and Instruction from Oklahoma State University, and a BA in English and Education from the University of Tulsa. Before moving to Pennsylvania, she worked for one of the largest school districts in Oklahoma, where she taught high school English for four years and served as the district’s Secondary English Curriculum Coordinator for one year. She currently works with the Iacocca Institute in Lehigh University’s Office of International Affairs on the internationalization of higher education initiatives and evaluations. Her research interests include the institutionalization of education, curriculum in post-conflict societies, education for refugees and marginalized populations, measures of teacher quality, and the internationalization of higher education.
Nino Dzotsenidze is a PhD Student in Comparative and International Education at Lehigh University, USA. She has an MEd in International Education Policy and Management from Vanderbilt University. Nino has worked in the formal and non-formal education sectors for almost 20 years. She worked as a Program Manager for an international non-governmental organization, PH International, as well as the Ministry of Education and Science of Georgia. In addition to her managerial positions, Dzotsenidze worked in the tertiary education sector in Georgia and Kuwait as a Development Officer and Lecturer, respectively.

Maren Elfert, PhD, is Lecturer in Education & Society in the School of Education, Communication and Society at King’s College London, and a 2018 National Academy of Education/Spencer Postdoctoral Fellow. Before pursuing doctoral studies, she worked for more than a decade as a member of the professional staff at the UNESCO Institute for Lifelong Learning in Hamburg, Germany. Her research focuses on how international organizations contribute to the globalization of ideas, with a focus on the tension between neoliberal approaches to education and discourses of human rights. Her book *UNESCO’s Utopia of Lifelong Learning: An Intellectual History* was published by Routledge in 2018.

Aihua Hu, PhD, is a Postdoctoral Researcher of Western Norway University of Applied Sciences. She has published academic articles in different journals on different issues including but not limited to teacher education, curriculum, inclusive education, study abroad, and teacher development. Her research interests include teacher education and teacher development, early childhood education, curriculum, language education, and comparative and international education.

Lela Iosava is a PhD Candidate at the Ilia State University School of Arts and Sciences. Her PhD dissertation examines the internationalization of higher education and the role of academics. Lela holds a Master’s degree in International Education Policy and Management from Vanderbilt University and has previously worked as an Academic Teacher and Institutional Developer in Georgia and Kuwait and as a Researcher in Sweden. She has over 10 years of professional experience in capacity-building, institutional development, and strategic planning in higher education. Her broad research interests lie in the area of academic leadership, internationalization, quality assurance, and change management in higher education.

Ane Turner Johnson is an Associate Professor of Educational Leadership at Rowan University in Southern New Jersey. She is an International Education Researcher who focuses on higher education policy and practice in Africa, particularly countries in the Western and Eastern African regions. Her research interests include rebuilding higher education in post-conflict contexts, the impact of war and violence on higher education, the marketization of higher education, and the role of regional and national research and education networks in ICT adoption in higher education. She has published on higher education in Africa in *The Review of Higher Education*, *Higher Education*, *International Journal of Educational Development*, *Higher Education Policy*, and *Compare*, among others.
Naejin Kwak is a PhD Candidate in the Graduate School of Education at Stanford University. Her research interests lie in the intersections of the sociology of education, the study of higher education, organization studies, and cross-national comparative studies. Her research explores historical changes, organizational development, and cross-national patterns in educational institutions such as universities. She is also part of the research team that examines social science textbooks around the world to conduct cross-national and longitudinal studies of educational curricula.

Kate Lapham is the Deputy Director of the Education Support Program at the Open Society Foundations. Her work is focused on overcoming barriers to education for communities facing exclusion or discrimination. Based in New York, Lapham has worked with communities, civil society groups, and education policymakers in the Caucasus, Central Asia, Central and Eastern Europe, and Mongolia and Russia for more than 15 years. Lapham has developed initiatives to strengthen civil society through exploration of common interests and challenges, including research for evidence-based advocacy, support for organizational development among young or small non-governmental organizations, and direct work with teachers and schools. She leads the Education Support Program’s grant making in support of the right to education in fully inclusive settings. She has a PhD in Comparative and International Education from Lehigh University with publications that include Learning to See Invisible Children: Inclusion of Children with Disabilities in Central Asia.

Meggan Madden is an Assistant Professor of International Education and Higher Education Administration at the George Washington University. Her research agenda examines policy frameworks and student experiences that broadly explore international higher education for development and exchange. This examination specifically focuses on supra-national and regional policy frameworks that impact access and inclusion for global student mobility and student experiences with international education to understand institutional practices used to promote, fund, and support underserved students thrive. Dr Madden brings to her scholarship several years of professional experience working in education abroad, international admissions, and scholarship services. She has published in Higher Education, Frontiers: The Interdisciplinary Journal of Study Abroad, Canadian Journal of Higher Education, and in Academic Matters. She was the Chair (2016–2019) of the Higher Education Special Interest Group of the Comparative and International Education Society.

Subir Maitra, PhD, is presently working as an Associate Professor of Economics at H. C. College (University of Calcutta) at Kolkata, India. He has completed his MSc and PhD in Economics from the University of Calcutta. His area of research includes economics of education, quality and financing of higher education, regulations in higher education, education and skill development, etc. He has published many research papers and chaired sessions at several international conferences. He is a member of the Executive Committee of the Comparative Education Society of India. He is an Ex-bureaucrat, having worked under the Government of West Bengal, India, for a couple of years.
Mirka Martel is the Head of Monitoring, Evaluation, and Learning at the Institute of International Education (IIE). She manages performance and impact evaluations for IIE programs and external clients, including the Ford Foundation, Carnegie Corporation of New York, US Department of State, and US Agency for International Development. Martel specializes in quantitative and qualitative evaluation of international education programs, with a specific interest in higher education exchange and leadership. Prior to joining IIE, Martel worked for the Aguirre Division of JBS International, an evaluation consulting firm based in Washington, DC. She provided technical assistance and evaluation support to education programs in Eastern Europe and Latin America funded by the US Agency for International Development and the US Department of State. She has also worked with the UN Millennium Villages Program and the Open Society Justice Initiative. She holds a Master’s degree in International Affairs from Columbia University, and is currently a Doctoral Candidate in International and Comparative Education from Teachers College, Columbia University.

Emily S. Meadows is Professional School Counselor who has supported children and their families in the United States, Europe, Asia, and the Middle East. She researches best policies and practices in gender and sexual minority educational inclusivity as a Doctoral at Lehigh University and at the George Washington University. Emily holds Master’s degrees both in sexual health and in international counseling. Her students, regardless of gender, sexuality, or locale, to protections, rights, and opportunities at school. Having spent more than half of her life overseas, Emily specializes in culturally relevant ways to improve the educational experience for sexual and gender minority students worldwide.

Christine Monaghan, PhD, is an Instructor at New York University. Her research and advocacy focuses on three main areas: globalization and refugee education; the impact on children and attacks on schools and hospitals in situations of armed conflict; and the development and implementation of human rights education programing.

Jacqueline Mosselson is an Associate Professor of International Education and Development at the University of Massachusetts, Amherst. She earned her PhD from Columbia University, where she also earned her Master’s Degree in International Affairs. Prior to academia, she worked for the Fulbright Commission, UNICEF, and the International Rescue Committee. Her research examines how inequality and difference manifest and are contested in culture, education, and schooling; racism, international development, and education; and migration, education, and schooling. In all her works, she uses a critical lens to explore the intersection of culture, politics, education, and global justice. From 2016 to 2018 she was Co-chair of the Teaching Comparative Education Special Interest Group for the Comparative and International Education Society.

Consuelo Murillo joined Educando in 2012, after having graduated from the LISTO program. For over 10 years, she has served in the Mexican basic and higher education fields in various capacities. She has conducted research in the
fields of innovation for the improvement of educational quality and environmental and sustainability education. She holds a Master's degree in Educational Technology from Monterrey Tech and Associate degrees in educational integration, outstanding skills, leadership and teaching competences, school leadership, and quality and directive competences.

Elin Eriksen Odegaard, PhD, is a Professor in Early Childhood Pedagogy at Western Norway University of Applied Sciences, and a Visiting Professor at University of Tromsø – The Artic University of Norway. Currently, she is the Director of KINDknow-Kindergarten Knowledge Centre for Systemic Research on Diversity and Sustainable Futures. She held degrees in early childhood teacher education, educational science and her thesis (dr.fil.) was about Narrative Meaning Making in Preschool, University of Gothenburg, Sweden. She has led several research and practice development projects. She has published extensively on cultural formation (bildung) and narrative methodology. Her research interest embraces cultural historical and discourse approaches, collaborative designs, “glocal” perspectives, curriculum studies, children, families, and teacher education.

Obioma C. Okogbue received her MA in the Comparative and International Education Program at Lehigh University. Her research focuses on societal inequality and its reflection in the educational system, and critical pedagogy. She has a BA in French and an MEd in Educational Leadership. Okogbue has experience in both the classroom as a French Teacher and as an Educational Administrative officer in Nigeria. She currently works as a Graduate Assistant to the Council for Equity and Community in Lehigh University.

Maureen Park is a Doctoral Student in Comparative and International Education at Lehigh University. Her research focuses on refugee and migrant education, mother tongue-based multilingual education, and gender and education. She has a BA in Political Science and an MEd in Multicultural Education. Maureen has experience in both international development and as an educator; she was a bilingual Teacher in the United States as well as an international school Teacher in Central Asia. She has worked for the Peace Corps, World Vision, and the World Food Program. She is also Co-founder of a non-governmental organization based in Kenya working to combat gender-based violence in schools and provide sexual and reproductive health education. She is currently based in Nepal.

Linda Platas is the Associate Chair of the Child and Adolescent Development Department at San Francisco State University. Her primary areas of research are measurement development in early childhood, teacher education, and the formation and implementation of early childhood public policy. In the United States, her experience includes developing measures of, and designing interventions for, early mathematics and language and literacy development. Internationally, she has worked on preschool and early primary grades child assessment and classroom observation instruments including the Early Grades Math Assessment and the Measuring Early Learning Quality and Outcomes instruments. She has served as an expert in international meetings on early mathematics and literacy
development and on many technical and policy advisory groups. Her work with the Development and Research in Early Math Education Network supports the development of open-source materials for teacher educators to support their teaching in early mathematics.

**Nikolay Popov** is a Professor of Comparative Education at Sofia University, Bulgaria. He has two Doctorates in Comparative Education – PhD (1990) and Dr. habil (2002). All his teaching and research activities are focused on the history, theory, and practice of comparative education. He has conducted comparative studies on management, finance, structures, teacher training, education laws, school curricula, and books in various countries. He is the author of 25 books and 140 articles and chapters on education in Bulgaria and comparative education. He is the Founder and Chair of the Bulgarian Comparative Education Society.

**Francisco O. Ramirez** is a Professor of Education and (by courtesy) Sociology at Stanford University. His current research interests focus on the worldwide rationalization of university structures and processes, on the institutionalization of human rights and human rights education, and on terms of inclusion issues as regards gender and education. His work has contributed to the development of the world society perspective in the social sciences and in international comparative education. Ramirez is currently a Fellow at the Scandinavian Collegium for Advanced Studies and will be the next Director of the Scandinavian Consortium for Organizational Studies at Stanford.

**Paula Razquin** is an Assistant Professor at the Universidad de San Andrés (Argentina), School of Education, of which she was the Director. She holds a PhD in International Comparative Education and an MA in Sociology from Stanford University. Prior to her current appointment, Dr. Razquin worked at UNESCO, with the Education for All Global Monitoring Report team and with the Division for Education Strategies and Capacity Building. She was involved in education research, evaluation, and reform projects in Argentina, Chile, Bolivia, Ecuador, Equatorial Guinea, Mexico, Nicaragua, Nigeria, the Philippines, the United States, and Uruguay. She has done work for international agencies like USAID, UNRWA, the Flemish Association for Development Cooperation and Technical Assistance, and the World Bank. She was a RAND/Spencer Postdoctoral Fellow and a Fulbright Scholar. Razquin has written about cost-effectiveness in education, after-school programs, teacher education, student achievement, NCLB, teacher pay-for-performance, the global financial crisis and primary education, teacher employment globally, education development goals, and teacher salaries.

**Cristina Salazar Gallardo** is a Researcher at Educando whose primary interests are around the issues of digital literacies and multimodal learning through ethnographic methods of research. She has an MA in Communication and Education and a Doctoral degree in Communication Media and Learning Technologies from Columbia University. Her dissertation work focuses on the activism practices of undocumented youth and on the analysis in which their multimodal participation can provide them the opportunity to engage in transformative spaces of learning.
Matthew J. Schuelka is a Lecturer in Inclusive Education and serves as the Program Director for the Inclusion and Special Educational Needs Program at the University of Birmingham – both in the United Kingdom and in Dubai. He comes from a diverse background of study, research, and teaching experience in the United States, Bhutan, Malaysia, and the United Kingdom. Dr. Schuelka has been involved in inclusive educational research and development projects in places such as the United States, Serbia, Zambia, India, Japan, Malaysia, and especially Bhutan. He is a Consulting Advisor for the Global Resource Center on Inclusive Education, based at the University of Minnesota, and has undertaken research and consultation for UNICEF, USAID, JICA, the British Academy, and the Toyota Foundation. Dr. Schuelka has a wide research focus on inclusive education policy, systems, and structures; inclusion as a whole-school approach; educational anthropology; and disability studies.

Alanna Shaikh is an Independent Consultant with 20 years of experience in International Development and Social Sector Reform, with a particular focus on health and education sector financing. Her areas of technical expertise include monitoring and evaluation and evidence-based policy. She has overseen programming in Central Asia, the Middle East, East Africa, and the Caucasus. Alanna has worked for employers that include USAID, the United States State Department, USAID implementing partners, and the United Nations. She holds a Bachelor’s degree in Middle East Studies from Georgetown University and an MPH from Boston University. She speaks French and Uzbek, and currently resides in Cairo.

Yasmin Sitabkhan is a Senior Early Childhood Researchers and Advisor in RTI’s Early Childhood Development Group in the International Education Division. Dr Sitabkhan has spent the past 19 years in the field of education, beginning as a primary school teacher and charter school administrator after which she transitioned to the role of a researcher in the United States and the Global South. Her research interests focus on children’s development of early mathematical concepts and instructional strategies to support learning in low- and middle-income contexts. Her research has explored the mathematical and financial competencies of groups of marginalized children (Mumbai, India, and Oaxaca, Mexico) through qualitative and quantitative methods. In her current role at RTI, Dr Sitabkhan provides technical expertise in early childhood through Grade 3 mathematics to projects around the world, and conducts research on best practices in teaching and learning early math.

William C. Smith holds a dual-title PhD in Education Theory and Policy and Comparative International Education from the Pennsylvania State University and currently works as a Teaching Fellow at the University of Edinburgh. He was formerly a Senior Policy Analyst with UNESCO’s Global Education Monitoring (GEM) Report. William’s individual research focuses on education’s role in economic and social development with special interests in national testing policies, educator-based accountability, population health, and equity in educational inputs and outcomes. He is the editor of the volume The Global Testing Culture: Shaping Education Policy, Perceptions, and Practice. Other research has been
published in journals such as the *International Journal of Educational Development, Globalisation, Societies, and Education, Education Policy Analysis Archives, Demography*, and *Social Science and Medicine*. Prior to the GEM Report, Smith helped develop and pilot the Right to Education Index at RESULTS Educational Fund and was a Thomas J. Alexander Fellow at the OECD.

**Meenakshi Srivastava** is a Special Educator in Jaipur, India, with 22 years' teaching experience. Her PhD, from the University of Groningen, the Netherlands, Department of Special Needs Education and Youth Care, focused on preparing teachers to set up an inclusive classroom for students with disabilities, particularly on teacher training, teachers’ knowledge about disabilities, and inclusive teaching methods. Her research interests include implementation of inclusive education, special needs education for invisible disabilities, and teachers’ role. She is involved in teacher and parent training programs.

**Matthew A. M. Thomas** is a Senior Lecturer in Comparative Education and Sociology of Education at the University of Sydney. He holds a PhD from the University of Minnesota and an MA from Columbia University, Teachers College. Matthew has worked as a public school teacher, teacher educator, researcher, and consultant across diverse contexts, including Australia, Mali, Nigeria, Indonesia, Tanzania, the United States, and Zambia. His research examines educational policies, pedagogical practices, teachers’ lives, and the changing roles of teacher education institutions. From 2016 to 2019 he was Co-chair of the Teaching Comparative Education Special Interest Group for the Comparative and International Education Society.

**David A. Turner** is a Professor at the Institute of International and Comparative Education, Beijing Normal University, PR China. He completed his doctoral study under the supervision of Brian Holmes at the University of London Institute of Education in 1981, since he showed growing interest in questions of theory in comparative and international education. He has published many articles and books including *Theory of Education* (Bloomsbury, 2005) and *Theory and Practice of Education* (Bloomsbury, 2009). He has been an active member of a number of comparative education societies, including the Comparative and International Education Society and the British Association of International and Comparative Education, and has served on the editorial boards of a number of periodical publications, including the *Annual Review of International and Comparative Education* and *Compare*.

**Susan Wiksten**, PhD, is a Lecturer in International Development Studies at the UCLA International Institute, at the University of California, Los Angeles. Since 2007, she has worked with administration, evaluation, and research in education in Denmark, France and the United States. She obtained an MA in Comparative Education from Université Paris Descartes (Sorbonne), France in 2013. Her PhD research for the UCLA Graduate School of Education and Information Studies was a qualitative case study of teacher preparation in Finland. She has provided
research assistance to the World Council of Comparative Education Societies, the UNESCO Chair in Global Learning and Global Citizenship Education at UCLA as well as the UCLA International Institute. Her service as Co-chair of the Teacher Education and the Teaching Profession SIG in CIES and her contributions as speaker and organizer for the Paulo Freire Institute at UCLA reflect her dedication to supporting the promotion of participatory and democratic practices in education.

C. C. Wolhuter studied at the University of Johannesburg, the University of Pretoria, the University of South Africa, and the University of Stellenbosch. His doctorate was awarded in Comparative Education at the University of Stellenbosch. He is a former Junior Lecturer in the Department of History of Education and Comparative Education at the University of Pretoria and a former Senior Lecturer in the Department of History of Education and Comparative Education at the University of Zululand. Currently, he is the Comparative and International Education Professor at North-West University, Potchefstroom Campus, South Africa. He has been a Visiting Professor at Brock University, Canada; Bowling Green State University, Ohio, United States of America; Mount Union University, Ohio, United States of America; the University of Crete, Greece; The University of Queensland, Australia; Beijing Normal University, China; Boris Grinchenko University, Ukraine; Zhengzhou University, China; Canterbury Christ University, United Kingdom; the University of Namibia; the University of Modena and Reggio Emilio, Italy; and the Education University of Hong Kong. He is the author of many books and articles on comparative and international education and history of education.
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ABOUT THE VOLUME EDITOR

Alexander W. Wiseman, PhD, is Professor of Educational Leadership and Policy in the College of Education at Texas Tech University, USA. He holds a dual-degree PhD in Comparative and International Education and Educational Theory and Policy from Pennsylvania State University, a MA in International Comparative Education from Stanford University, a MA in Education from The University of Tulsa, and a BA in Letters from the University of Oklahoma. Wiseman conducts comparative educational research on educational policy and practice using large-scale education datasets on math and science education, information and communication technology, teacher preparation, professional development and curriculum as well as school principal’s instructional leadership activity, and is the author of many research-to-practice articles and books. He serves as Senior Editor of the online journal, FIRE: Forum for International Research in Education and as Series Editor for the International Perspectives on Education and Society volume series (Emerald Publishing).
PREFACE

The 2018 volume of the Annual Review of Comparative and International Education marks the beginning of a new era for scholarship and professional development in comparative and international education. It was a year in which university academic programs in comparative and international education grew outside of their traditional homes in Colleges of Education into other disciplines and fields and in which highly-respected and productive academic programs were inexplicably shuttered. The introductory chapter by Davidson et al (this volume) suggests that comparative education research often originates outside of the field of comparative and international education (CIE), and perhaps receives more visibility and has more impact when conducted outside of the field of CIE. This suggests a new challenge for comparativists of education to consider and is even more reason for the importance of the Annual Review as a tool for professional reflection and evaluation of the goals, strategies, plans, and relationships that CIE professionals both in and out of the academic enterprise advance.

The 2018 Annual Review is again divided into distinct sections, which are preceded by an introductory chapter. In the introductory chapter, Davidson and her coauthors suggest a new framework for examining the impact and scope of comparative and international education research. Rather than look at the CIE field discretely, they propose a framework of “osmosis”, which examines the external development of the field by considering what, where, and why CIE-related research appears outside of the field itself.

Comparative and international education research, trends, and issues are more widely varying in 2018 than in previous years. In Part 1: Comparative Education Trends and Directions, contributors examine approaches to CIE using a less singular lens than in previous years. International organizations, special interest populations, and the importance of teachers and teaching in CIE were the focus of the trends and directions in 2018. The second section, Part 2: Conceptual and Methodological Developments, is represented by a sole chapter from one of the most important voices in comparative and international education scholarship and reflection, David A. Turner. In his chapter, Turner asserts that much of the research and other work done in comparative education in recent years has been ‘atheoretical’. His suggestion is that while theoretical assumptions are made, they are not thoroughly interrogated or examined in comparative education research. This is a key assertion, which warrants the complete attention of Annual Review readers, and is the reason for it being the sole chapter in Part 2 in the 2018 volume. The third section, Part 3: Research-to-Practice, and fourth section, Part 4: Area Studies and Regional Developments, provide content related to the impact of international organizations on educational interventions – whether it is public schools in Latin America or ICT in African higher education – and the impact
of gender, early childhood education, or academic mobility on educational outcomes at the primary, secondary, and higher education levels.

Of particular note, in the final section, Part 5: Diversification of the Field, is the ongoing attention to special needs education in communities that are also addressing educational access and equity issues at the system level, and the addition of gender and sexual minorities to the CIE discussion. While work on gender and sexual minorities is not new, it is also not often highlighted as a major area for research and discussion in comparative and international education. Part of the challenge is that gender and sexual orientation discussions are culturally taboo in some communities worldwide, especially when society, culture, tradition, and religion are closely entwined. Meadows closes the volume with her discussion of ‘context paralysis’, which she introduces to the literature, and how it is related to gender and sexual minority (GSM) children worldwide. This is representative of the kind of boundary-pushing work that the Annual Review strives to highlight and introduce to the CIE community for reflection, discussion, and even debate.

It should be noted that as the Annual Review of Comparative and International Education enters the second half of its first decade, each Annual Review since the inaugural volume has examined both current perspectives and identified future directions for the field of CIE. The Annual Review continues to begin with reflective essays by both established and new leaders in the field, which serve to create the context for the chapters in the sections that follow. It is also notable that the Annual Review continues to serve as an international forum for discussing matters of comparative and international education theory, research, policy, and practice. Although the field may not have exclusive ownership over CIE-related research, there is room enough for CIE professionals and scholars to interact around a shared vision of open discussion, innovative thinking, and empirically-rooted research. This is the goal of the Annual Review of Comparative and International Education moving forward and will be a guide for future volume editors to both follow and develop further.
ACKNOWLEDGMENTS

There are many voices that come together to create each volume of the Annual Review of Comparative and International Education. The 2018 volume is no different in that respect. The Annual Review of Comparative and International Education 2018 would not be possible without the unwavering commitment, professionalism, expertise, intelligence, and insight of the editorial team. The 2018 editorial team consisted of Petrina M. Davidson, Maureen F. Park, Nino Dzotsenidze, and Obioma C. Okogbue. Not only are these four members of the Annual Review editorial team, they are also scholars and colleagues. They dedicated countless hours working through every stage of the volume’s process, from our first meeting discussing the potential chapter authors and strategizing how to build a strong volume with contributions from all disciplines and professional backgrounds, to the nitty-gritty details of formatting, emailing with chapter authors about revisions, and finalizing the documents to be sent to the publisher. Every reader of the Annual Review of Comparative and International Education owes them a word of gratitude for their encouragement, guidance, rigor, and vision in not only creating this volume, but in building on past volumes and setting a fruitful and meaningful path for future volumes. As both the Annual Review volume editor and the International Perspectives on Education and Society series editor, I owe them a special note of thanks from the depths of my heart – not only for what they have created professionally and academically, but for the gift they have both literally and figuratively given to our professional and scholarly communities and to me personally. Truly thank you, Petrina, Maureen, Nino, and Obioma.

Alexander W. Wiseman
Volume and Series Editor
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THE OSMOSIS OF COMPARATIVE AND INTERNATIONAL EDUCATION: WHAT, HOW, AND WHY CIE RESEARCH APPEARS IN NON-CIE JOURNALS

Petrina M. Davidson, Maureen F. Park, Nino Dzotsenidze, Obioma Okogbue and Alexander W. Wiseman

ABSTRACT

Osmosis is the movement of particles across a boundary until the saturation of particles has been equalized on both sides of the boundary. Although this term is most often used in biology, it is a relevant metaphor for comparative and international education (CIE), as the boundaries which define the field are permeable, with few limitations on what is and is not considered CIE. Previous introductory chapters to the Annual Review of Comparative and International Education have examined the professionalization of the field through the characteristics of articles published in prominent CIE journals. While drawing on a similar framework, this chapter, rather than examining CIE from the inside, examines the development of the field from the outside by considering what, where, and why CIE-related articles appear in journals outside of the field. In addition to data on articles from CIE journals for 2017, education-related articles from domestic and international journals with the highest impact factor from the fields of sociology, political science, economics, anthropology, psychology, and education are also included. These components will provide multiple points of comparison and discussion to examine how non-CIE journals include CIE related topics to identify which themes permeate the CIE boundary.
INTRODUCTION

One of the Annual Review of Comparative and International Education’s primary purposes is to encourage and provide space for reflection on the field. Previous volumes of the Annual Review have established broad categories of comparative and international education (CIE) publications (Wiseman & Anderson, 2013) and have reviewed trends in peer-reviewed CIE journal article publications (Davidson, Taylor, Park, Dzotsenidze, & Wiseman, 2018; Wiseman, Anderson, Davidson, & Taylor, 2015; Wiseman, Davidson, & Taylor, 2017). Initially, the Annual Review examined four CIE-related journals, with this number expanding to six in 2016 and to eight in 2017. While earlier research focused on the trajectory of the field (Wiseman, Anderson, et al., 2016), subsequent introductory chapters expanded not only the number of journals examined but also the fields of analysis. These additional fields included the author’s affiliated organization(s), as well as the country location of these affiliations. These changes were reflective of the expanded scope of the Annual Review—an examination of the nature of author collaboration. The 2017 Annual Review characterized the relationships between authors, researchers, and subjects and answered “who,” “what,” and “how” questions which are ever present in the field.

The purpose of this introductory chapter is twofold and will be presented in two sections. First, Section 1 continues the conversations started in previous Annual Reviews by highlighting trends in article publications, presenting them as a reflection on the current status of the field. Next, Section 2 examines the field of CIE from the outside by examining what, how, and why CIE-related articles are published in non-CIE fields. This examination of the field is guided by the concept of osmosis—the process by which particles permeate membranes until an equal distribution of molecules exists on both sides of the barrier (Osmosis, n.d.). Although this term is often used in biology, it is relevant for CIE, as some comparativists would argue that like membranes, the boundaries which define the field are permeable, with few limitations on what is considered CIE (Manzon, 2011; Tikly & Crossley, 2001; Turner, Chapter 4, this volume). Others would argue that the boundaries are, in fact, imaginary, and the standard definitions of CIE are simply false constructs—that though the field may claim to have boundaries, they are in fact imaginary, “conceptualized both temporally and spatially” (Bash & Gundara, 2012).

The concept of examining CIE publications to identify boundaries and trends is not new. In fact, this scholarly self-examination began in earnest in the 1970s with Robert Koehl’s content analysis of three comparative education journals (Foster et al., 2011). Since then, several authors have conducted similar studies to define the field, all focusing on the content of the field from an internal perspective (Epstein, 1994; Manzon, 2011; Wiseman & Anderson, 2013). This chapter
builds upon these earlier studies by attempting to establish the boundaries of CIE; it examines trends in CIE publications, and draws from previous definitions of CIE to provide a definition of what is considered to be a CIE publication, with boundary crossing weighing heavily in our understanding of the field. A list of parameters is used to compare CIE-relevant topics in non-CIE journals. The results from this examination provide an additional perspective on the ownership of expert knowledge in the field of CIE. Through the exploration of the osmosis of expert knowledge and the permeability of the field’s boundaries, this chapter will consider the extent to which CIE exists as a stand-alone field, or if it is diluted to the point that it blends with other, larger fields, including sociology, political science, economics, anthropology, psychology, and education.

This research continues the exploration of the professionalization of the field, which includes (1) ownership of expert knowledge, (2) training and credentials, (3) self-policing and ethical codes, (4) occupational domain, and (5) the workplace (Abbott, 1988; Wilensky, 1964; Wiseman & Matherly, 2009). While previous examinations of expert knowledge have attempted to allow definitions of the field to develop from trends in the published literature, this chapter identifies existing boundaries within the field to identify what, how, and why articles, which could be characterized as CIE are appearing in journals outside of the field.

To consider the extent to which the field of CIE has ownership of expert knowledge in the field, the following questions will guide the research presented here: (1) What are the topics that permeate CIE boundaries? (2) How do journals in subjects affiliated with CIE (sociology, political science, economics, anthropology, psychology, and education) include CIE-related topics? (3) Why does this osmosis of CIE topics to non-CIE fields occur? If, as suspected, osmosis of the field is occurring, there will be a substantial number of CIE-related articles in non-CIE journals, which provides evidence of the extent to which CIE does not have ownership over expert knowledge. However, prior to engaging in a discussion of how CIE goes beyond its boundaries, we will first review the results of this year’s journal publications.

WHAT IS CIE?

To address the questions outlined in the introduction, it is first necessary to establish our definition of CIE. This has been a topic of debate since the inception of the field – a starting point which itself remained vague (Bereday, 1960; Epstein, 1994; Manzon, 2011; Olivera, 1988; Passow, 1982; Ragin, 1989). An earlier analysis of published scholarship in CIE sought to address the following three questions: (1) Who are we? (2) What do we focus on? and (3) How do we define or create expert knowledge in our field? (Wiseman, Matherly, & Epstein, 2016). The results of this previous study point to few recent changes to published scholarship in the field, as much of the work is qualitative, published by single authors, and with a single-country focus that does not align with the location of the author’s institution (Wiseman et al., 2016). When defining CIE, each word separately contributes to an overall understanding of the term as a whole.
Comparative. Many scholars have identified the comparative component as especially integral to understandings of the field. Ragin (1989) stated that comparative sciences should examine multi-level phenomena existing simultaneously at systemic and individual levels. Bloemraad (2013) characterizes comparative research as that which makes a conscious decision about what to compare. Ragin (1989) also argues that studies can be comparative through an implied comparison to a researcher’s own experiences or country. Bray and Thomas (1995, p. 488) argue that most research in the field of CIE “requires multilevel comparative analysis to achieve a full and balanced understanding.” Arnove (2013, p. 3) echoes this approach to CIE, outlining the need for multiple layers of study including the “interplay between the global and the local” and “macro- and micro-level forces shaping education systems around the world.”

International. According to Epstein’s (1994) distinction of the comparative and international in CIE, the comparative component of the field focuses on “explaining why educational systems and processes vary and how education relates to wider social factors and forces,” while international education focuses “more directly on descriptive information about nations and societies and their education systems and structures” (p. 918). Although some have argued that CIE represents the theoretical and practical sides of the field (Wiseman & Matherly, 2009), Hall’s perspective states the two components are “equal but related starting points for the development of theory and practice” (Phillips & Schweisfurth, 2006). International, in this research, is used to describe work that includes some type of geographical boundary crossing, whether through the context of an article, collaborations between authors from different countries, or research conducted in contexts outside of one’s own.

Education. For the purposes of this research, education includes the agents, processes, and phenomena related to education, such as formal, non-formal, and informal education; public and private education; educational policy or leadership; lifelong learning; vocational education; or adult education. Additionally, studies of the field itself – such as this one – are also considered CIE. This list does not claim to be exhaustive; rather, it is intended to provide examples of what is included in this study.

In putting these three terms together, we arrive at our definition of CIE, in which a broad field of study is created where the “cross-societal differences and similarities” (Ragin, 1989, p. 1) of various education- and school-related phenomena are studied to develop a deeper “understanding of educational phenomena” of the schools locally, nationally, and globally (Olivera, 1988, p. 181). The underlying thread which connects all of the articles examined here, from both CIE and non-CIE journals is a relationship with education. Whether formal or informal or early childhood or post-secondary, articles considered CIE include a relationship with education.

SECTION 1: CURRENT STATUS OF THE FIELD

Building on the work of previous Annual Reviews, the following section presents the findings and current trends in article publications in the field of CIE.
This reflection on the current status of the field is an important tool for the continued professionalization of the field, the data and findings presented serve to promote continued reflective practice. This section begins with a description of the methodology used to select journals from both CIE publications, as well as the coding procedures employed in the research. Next is a presentation on the findings – the results of data collected in 2017 from eight CIE journals followed by a discussion on the current trends in CIE. This section highlights trends in authorship, level or unit of analysis, methodological approach, and keywords.

**METHODOLOGY**

*CIE Journals*

This chapter adheres to the same procedures for journal selection and article coding as in previous years (Davidson et al., 2018; Wiseman et al., 2015, 2017). Journals included in this study are highly regarded, peer-reviewed, published in English, and represent a variety of approaches and perspectives (Davidson et al., 2018; Wiseman et al., 2015; Wiseman et al., 2017). Within each journal, articles – not book reviews or editorials – were included in data collection. The sample examined here included CIE articles from the eight journals identified in Table 1.

For most of the journals, only articles included in printed editions were included; however, *Research in Comparative and International Education* is an online-only journal, and therefore, adhering to previous protocols, only articles published as part of specific volumes and issues were included. Across the journals, articles which were only published online and outside of a particular volume and issue were excluded. More information about journal and article selection can be found in previous editions of the *Annual Review of Comparative and International Education* (Davidson et al., 2018; Wiseman et al., 2015, 2017).

<table>
<thead>
<tr>
<th>Journal Title</th>
<th>Location of Publication</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Comparative Education</em></td>
<td>Oxon, England</td>
<td>1.579</td>
</tr>
<tr>
<td><em>Comparative Education Review</em></td>
<td>Chicago, IL, USA</td>
<td>1.815</td>
</tr>
<tr>
<td><em>Compare: A Journal of Comparative and International Education</em></td>
<td>Oxon, England</td>
<td>1.828</td>
</tr>
<tr>
<td><em>International Review of Education</em></td>
<td>Netherlands</td>
<td>N/A</td>
</tr>
<tr>
<td><em>Multicultural Education Review</em></td>
<td>Korea</td>
<td>N/A</td>
</tr>
<tr>
<td><em>Prospects: Comparative Journal of Curriculum, Learning, and Assessment</em></td>
<td>Netherlands</td>
<td>N/A</td>
</tr>
<tr>
<td><em>Research in Comparative and International Education</em></td>
<td>Germany</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Table 1. CIE Journals Included in an International Review of Published CIE Research.*
**Coding Procedures**

As in previous years, coding included the following categories: journal name, volume, and issue; article title and author(s) name(s); author(s) institutions(s); co-author relationship; level of analysis descriptors; context descriptors; author–location relationship to study context, research methodology descriptors; and journal-provided article keywords (Davidson et al., 2018; Wiseman et al., 2015, 2017).

As in the past, for journals which did not provide keywords, the researcher selected relevant words from the title and abstract, selecting words related to methodology and context first, followed by other generally descriptive or unique terms.

**FINDINGS**

The following summarizes the data collected from the 2017 editions of eight CIE journals. As in previous years, the aim was to explore how authors cooperate, which countries dominate the research, and what themes emerge as trends in the field. This analysis characterizes what empirical research in the field of CIE looks like through publication inquiry. It allows for further reflection on how the work authors contribute continues fitting within the boundaries of CIE.

**Authorship**

In total, 539 authors published independently or collaboratively in eight journals. Although most authors published only 1 article, 4 authors published 3 articles, and 14 authors published 3 articles in 2017. Table 2 illustrates the unit of analysis in relation to the number of authors per article. For the 2017 data collection period, articles by single authors ($n = 114$) outnumber articles written by two ($n = 81$), three ($n = 43$), or more authors. This trend mirrors the 2016

<table>
<thead>
<tr>
<th>Level of Unit of Analysis</th>
<th>Single Author</th>
<th>Multiple Authors</th>
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<tbody>
<tr>
<td></td>
<td>One</td>
<td>Two</td>
</tr>
<tr>
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<tr>
<td>Two countries</td>
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<td>8</td>
</tr>
<tr>
<td>Three+ countries</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Global organizations</td>
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<td>0</td>
</tr>
<tr>
<td>Regional focus</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Topic-oriented</td>
<td>33</td>
<td>21</td>
</tr>
<tr>
<td>Theoretical</td>
<td>14</td>
<td>9</td>
</tr>
<tr>
<td>Undetermined</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>114</td>
<td>81</td>
</tr>
</tbody>
</table>
data (Davidson et al., 2018). Similarly, the overall co-authored articles, \((n = 151)\) surpass single-authored articles, like in 2016. This is indicative of the continued collaborative nature of the field.

Authors were affiliated with 308 organizations – primarily academic institutions and international organizations. This is an increase from last year, in which only 256 unique organizations were represented (Davidson et al., 2018). The 2017 author affiliations included UNICEF (3), the World Bank (6), and RTI International (8). The University of Hong Kong (12) and Columbia University (7) led the frequency of university affiliations, followed by University College of London, University of Bristol, University of Cambridge, University of Helsinki, University of Luxemburg, Oxford University, University of Pennsylvania, University of Pretoria, University of Toronto, and University of Massachusetts – Boston, which all were represented six times each. Despite the variety of non-university organizations, data in 2017 did not show a strong presence of practitioners in the field. Only 7% of all authors were affiliated with non-university organizations. Academicians strongly outnumbered practitioners in the 2017 data, similar to 2016, where author affiliation with non-university organizations was 10% (Davidson et al., 2018).

Table 3 displays the relationship between the geographic locations of institutional affiliations of co-authored articles using the methodological approach. This indicates the cross-border collaboration of authors. To understand the nature of this cooperation, we first identified the country of the affiliated institution for each author. Then, we determined the relationship between the authors’ countries. These relationships are described in three ways: same, different, and combination. For further detail on coding author relationships, see the previous Annual Review (Davidson et al., 2018). The limitation of this approach, however, is that institutional location does not inform us of the author’s nationality. For example, a German author could work at a US-affiliated institution and would, therefore, be coded as a representative of the US institution. Country coding in the data has no relationship to the nationality of the author.

The 2017 data show that almost one-third of co-authored articles are the result of same country cooperation (\(n = 94\)), meaning that authors either cooperate within the same institutions or across different institutions located in the same country. Cross-national, or combination author collaborations (\(n = 71\)),

<table>
<thead>
<tr>
<th>Co-author Country Representation</th>
<th>Combination</th>
<th>Different Countries</th>
<th>Same Country</th>
<th>N/A</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed-methods</td>
<td>2</td>
<td>5</td>
<td>11</td>
<td>5</td>
<td>23</td>
</tr>
<tr>
<td>Qualitative</td>
<td>12</td>
<td>28</td>
<td>51</td>
<td>51</td>
<td>142</td>
</tr>
<tr>
<td>Quantitative</td>
<td>4</td>
<td>8</td>
<td>24</td>
<td>20</td>
<td>56</td>
</tr>
<tr>
<td>Theory</td>
<td>2</td>
<td>6</td>
<td>5</td>
<td>10</td>
<td>23</td>
</tr>
<tr>
<td>Undetermined</td>
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<td>1</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>N/A</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>51</td>
<td>94</td>
<td>103</td>
<td>268</td>
</tr>
</tbody>
</table>
account for the remaining applicable data. A substantial number \((n = 103)\) of single-authored articles are not applicable to describe the data. Much like the 2016 results, data in 2017 revealed that theoretical articles are rarely co-authored \((n = 23)\), while a qualitative approach is most frequently used \((n = 142)\) in co-authored articles. The findings indicate that the largest portion of co-authored articles are written by co-authors working in the same country, and the remaining collaborative efforts are by authors living in different countries.

**Level or Unit of Analysis**

The level or unit of analysis refers to the number of countries studied in one article. Some articles are not country specific but apply regional, global, or topical perspectives. Topic-oriented articles mostly focus on one specific theme. Single-country studies \((n = 124)\) lead the 2017 data followed by topic-oriented \((n = 65)\) and theoretical \((n = 28)\) articles.

**Methodological Approach**

This section identifies which methods (qualitative, quantitative, or mixed-methods) are used most frequently in CIE journals published in 2017 by single and multiple authors. These articles were coded based on identified methodologies; articles without distinct methodologies were coded as theoretical, while articles without sufficient information for classification were coded undetermined. The 2017 data included 221 empirical articles and 23 theoretical articles; this was similar to the 2016 data with 195 and 23, respectively. Table 4 shows that authors who work individually or collaboratively favor the qualitative approach \((n = 142)\) compared to only 56 articles drawing on quantitative methodologies. The trend in 2016 was very similar to 2017: single authors favored the qualitative approach in their articles, followed by the quantitative method. The majority of mixed-methods articles \((n = 23)\) were produced by two authors \((n = 9)\). Slightly more single authors wrote theoretical articles \((n = 12)\) compared to co-authored theoretical articles \((n = 11)\). Approximately 8% of articles \((n = 22)\) in the 2017 data were coded as having not applicable methodologies, meaning that these articles did not use any of the previously mentioned approaches.

### Table 4. Frequency of Author Count Per Article by Methodology/Approach – 2017.

<table>
<thead>
<tr>
<th>Methodology or Approach</th>
<th>Single Author</th>
<th>Multiple Authors</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One</td>
<td>Two</td>
<td>Three</td>
</tr>
<tr>
<td>Mixed-methods</td>
<td>7</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>Qualitative</td>
<td>56</td>
<td>48</td>
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<td>Quantitative</td>
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<tr>
<td>Theory</td>
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<td>6</td>
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<td>1</td>
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<td>17</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>114</td>
<td>81</td>
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