

UDITA GUPTA

Urban Institute for Teacher Education (UITE)
College of Education University of Utah
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EDUCATION

University of Utah, Salt Lake City, Utah

Doctor of Philosophy (PhD): Educational Psychology (Learning Sciences)
Dissertation: Managing Cognitive Load During Complex Learning: A Study on Worked Examples and Element Interactivity

Johns Hopkins University, Baltimore, Maryland

Masters of Teaching (MAT): Math Education (Secondary)
Concentration: Demystifying Barriers in Geometry Word Problems

Kanpur University, Kanpur, India

Master of Sciences (MS): Statistics

Kanpur University, Kanpur, India

Bachelor of Sciences (BS): Math, Statistics, Economics

CERTIFICATION/LICENSURE

Maryland Math Educator License

ACADEMIC APPOINTMENTS

- 2019- *Associate Professor (Career Line)*, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2014-2019 *Assistant Professor (Career Line)*, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2010-2014 *Graduate Assistant & Student Teacher Supervisor*, Urban Institute for Teacher Education (UITE), University of Utah.
- 2010-2011 *Student Teacher Supervisor*, Math for America (MFA), Department of Mathematics, University of Utah.
- Research Assistant*, Department of Educational Psychology, College of Education, University of Utah.

OTHER ACADEMIC AND ADMINISTRATIVE POSITIONS

2001-2002 *Lecturer*, Department of Statistics, Kanpur University, India

PUBLICATIONS

Peer-reviewed Articles

Gupta, U. & Zheng, R. (2020). Cognitive Load in Solving Mathematics Problems: Validating the Role of Motivation and the Interaction Among Prior Knowledge, Worked Examples and Task Difficulty. *European Journal of STEM Education*. 5(1).

Gupta, U. (2019). Interplay of Germane Load and Motivation During Math Problem Solving using Worked Examples. *Educational Research: Theory and Practice*.

Burbank, M., Bates, A., Gupta, U. (2016). The Influence of Teacher Development in Secondary Content Area Supervision among Preservice Teachers. *The Teacher Educator*, 51:55 – 69.

Zheng, R., Uditia, G., & Dewald, A. (2012). Does the format of pretraining matter? A study on the effects of different pretraining approaches on prior knowledge construction in an online environment. *International Journal of Cyber Behavior, Psychology and Learning*, 2(2), 35-47.

Book Review

2019 A Short Guide to Action Research, 4th edition. Pearson Education Inc.

Book Chapter Review

2017 What cognitive psychology can tell us about educational computer games? *Cognitive Psychology and Educational Computer Games*.

PRESENTATIONS AND ACCEPTANCES (IN REFREED CONFERENCES)

2023, Mar. Coaching and Mentoring in Teacher Education Programs, Panel Presentation at *Western Regional Noyce Conference (WRNC)*, Sacramento, USA (*accepted; presentation on Mar. 12, 2023*).

2020, Apr. Making Your ELL Instruction Count: Practice and Reflection Based Approach for Pre-Service Teachers. Poster Presentation at *Carnegie Foundation Summit*, San Francisco, USA (*accepted; conference cancelled due to COVID*)

2020, Apr. Reflective Practices in Teacher Education. Poster Presentation at *Carnegie Foundation Summit*, San Francisco, USA (*accepted; conference cancelled due to COVID*)

2020, Feb. How Reflective Practices Impact Secondary Pre-Service Teachers? Presentation at *Association for Teacher Education (ATE)*, Atlantic City, New Jersey, USA (*accepted; conference cancelled due to COVID*).

- 2019, Oct. “Mirror! Mirror! What is Reflection?” Roundtable discussion at *Northern Rocky Mountain Educational Research Association (NRMERA) Annual Conference*. Denver, Colorado, USA.
- 2019, Mar. How critical is the role of prior knowledge and element interactivity in math? Session Presentation at *International Consortium for Research in Science and Mathematics Education (ICRSME XV) Annual Conference*. San Jose, Costa Rica.
- 2018, Oct. Interplay of Germane Load and Motivation During Math Problem Solving using Worked Examples. Poster Presentation at *Northern Rocky Mountain Educational Research Association (NRMERA) Annual Conference*. Salt Lake City.
- 2017, Mar. Managing Cognitive Load during Complex Learning: A Study on Worked Examples and Element Interactivity. Poster Presentation at *International Convention of Psychological Science (ICPS) Annual Conference*. Vienna, Austria.
- 2011, Feb. Strategies for Increasing Student Learning with Online Videos: Findings from a NetSafe Study. Presentation at *Utah Coalition for Educational Technology (UCET) Annual Conference*. Sandy, UT.

Workshops and Professional Development

- 2022, Dec. *Attendee*, Retention, Promotion and Tenure Process for Career-Line, Office of Faculty, University of Utah
- 2022, Nov. *Attendee*, Life as a Career-Line, Office of Faculty, University of Utah.
- 2022- *Participant*, Career-Line Conversation, College of Education, University of Utah.
- 2022, Oct. *Lead Presenter*, UITE Secondary STE Symposium, College of Education, University of Utah.
- 2022, Sept. *Attendee*, NASDTEC PEC Open Discussion: Compensation for Student Teachers/Teacher Candidates (Online).
- 2022, Aug. *Attendee*, Developing Research Questions and Aligning Data, ICPSR-AERA PEERS Data HUB (Online).
- 2022, May *Member*, Family Influence Study, Collaboration with San Jose State University.
- 2022, Nov. *Attendee*, Equity and Inclusion in Higher Education: Strategies for Teaching, CTLE, University of Utah.

- 2022, Oct. *Lead Presenter*, UITE Secondary STE Symposium, College of Education, University of Utah.
- 2021, Oct. *Attendee*, Grant Writing Workshop, Grant Writing Center, Salt Lake City.
- 2019, Aug. *Presenter*, Reflective Practices in Higher Education. University of Utah's Annual Teaching Symposium, University of Utah.

Other Conference Activities

- 2020, Apr. *Chair* (Div. K, Section 10). Non-Traditional Approaches to Teacher Education. *2020 American Educational Research Association Annual Meeting*.
- 2020, Apr. *Discussant* (Div. K, Section 6). Teacher Learning Through Video and Virtual Reality in Field Experiences. *2020 American Educational Research Association Annual Meeting*.

TEACHING EXPERIENCE

University of Utah (*Significantly redesigned)

MASTER'S COURSES

- Secondary Student Teaching
- Professional Development for Sec. Preservice Teachers (**Spring 2021**) *
- Field Practicum for Secondary Preservice Teachers (**Fall 2021**) *
- Field Practicum for Secondary Interns
- Field Practicum for Secondary Math Preservice Teachers
- Secondary Student Teaching for Interns
- Secondary Student Teaching for Math Preservice Teachers
- Professional Development for Secondary Interns
- Professional Development for Math Preservice Teachers

UNDERGRADUATE COURSES

- Secondary Math Methods (**Spring 2022**) *
- Secondary Student Teaching
- Professional Development for Secondary Preservice Teachers (**Spring 2021**) *
- Field Practicum for Secondary Preservice Teachers (**Fall 2021**) *

COMMUNITY ENGAGED LEARNING (CEL) DESIGNATION

University of Utah (Since Fall 2019)

Undergraduate Courses

- EDU 5495 Secondary Student Teaching
- EDU 5491 Professional Development for Secondary Preservice Teachers
- EDU 5490 Field Practicum for Secondary Preservice Teachers

Graduate Courses

- EDU 6495 Secondary Student Teaching
- EDU 6491 Professional Development for Secondary Preservice Teachers
- EDU 6490 Field Practicum for Secondary Preservice Teachers

SERVICE

Service to College/Urban Institute for Teacher Education

- 2022- *Reviewer*, TFU/Noyce Applications, College of Education, University of Utah.
- 2022- *Member*, Equity, Diversity and Inclusion (EDI) Adhoc Committee, College of Education, University of Utah.
- 2022, Sept. *Presenter*, Field Hours Pathways for Juniors & Seniors, Monthly Meeting – Teach for Utah, Noyce and BS/Med Scholars, College of Education, University of Utah.
- 2021, Nov. *Attendee and Information Sharing*, Monthly Meeting – Teach for Utah, Noyce and BS/Med Scholars, College of Education, University of Utah.
- 2021, Oct. *Attendee*, Supervision Workshop – Bridging High Leverage Practices with PAES rubric, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2021, Oct. *Participant*, Alumni Induction Meeting, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2021, Feb. *Member*, Search Committee for Associate Dean for Faculty and Student Affairs, College of Education, University of Utah.
- 2021- *Member*, Conversation on Setting Transition Route for Engineering Students Interested in Teaching, Collaboration between Urban Institute for Teacher Education (UITE) and College of Engineering, University of Utah.
- 2020- *Data Collection and Report Generation*, CAEP Accreditation Case Studies, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2020, June *Creator*, Video Resources for Pre-Licensure and Licensure Faculty, Urban Institute for Teacher Education (UITE), College of Education, University of Utah.
- 2020, June *Reviewer*, Undergraduate and Research Opportunities Program (UROP), College of Education, University of Utah.
- 2018, Dec *Attendee*, Campus Diversity Committee Meeting, College of Education, University of Utah.

- 2018, June *Member*, Educational Dispositions Committee, College of Education,
University of Utah.
- 2016-2017 *Member*, Faculty Awards Committee, College of Education, University of Utah.
- 2017, Apr. *Member*, Career Line Faculty Meeting, College of Education, University of Utah.
- 2016, Sept. *Member*, Undergraduate Committee Meeting, College of Education,
University of Utah.
- 2016- *Member*, Scholarship Committee, College of Education, University of Utah.
- 2016- *Reviewer*, Admissions Committee, Urban Institute for Teacher Education (UITE),
College of Education, University of Utah.

Service to University

- 2022- *Member*, Faculty Learning Community on Math DEWI, University of Utah
- 2017- *Member*, Student Behavior Committee, University of Utah
- 2020- *Member*, University Career-Line Faculty Reappoint Committee (UCLFRC)

Service to Community (National and International)

- 2022- *Grand Awards Judge*, International Science and Education Fair (ISEF),
Society of Science, Washington D.C.
- 2020- *Judge*, Social and Behavioral Sciences, International Science and Education
Fair (ISEF), Society of Science, Washington D.C.
- 2019- *Judge*, District Science Fair Judge, North Zone, Salt Lake City.
- 2019- *Judge*, Social and Behavioral Sciences, University of Utah Science and
Education Fair (USEF), University of Utah.
- 2016- *Judge*, Science Fair, Challenger School, Salt Lake City.

EDITORIAL REVIEW

- 2020- *Editorial Board*, International Journal of Innovative Teaching and Learning in
Higher Education (IJITLHE).
- 2018- *Editorial Board*, International Journal of Teacher Education and Professional
Development (IJTEPD).
- 2018-2019 *Reviewing Board*, CAEP Math Program, National Council of Teachers of
Mathematics (NCTM).
- 2017- *Manuscript Reviewer*, American Association of Colleges for Teacher Education
(AACTE).
- Manuscript Reviewer*, Association for Supervision and Curriculum Development
(ASCD).

- 2016- *Manuscript Reviewer*, International Journal of Teacher Education and Professional Development (IJTEPD).
- 2016- *Manuscript Reviewer*, National Council of Teachers of Mathematics (NCTM).
- 2016- *Proposal Reviewer*, Annual Meeting of the American Educational Research Association (AERA)—Division K (*Teaching and Teacher Education*).
- 2016- *Proposal Reviewer*, Annual Meeting of the American Association of Colleges for Teacher Education (AACTE) – Strand 1 (*Preparing Educators In and For the Future*) and Strand 2 (*Renewing Democracy through Activism and Collaboration*).
- 2016- *Proposal Reviewer*, Annual Meeting of the Association of Supervision and Curriculum Development (ASCD).
- 2016- *Proposal Reviewer*, National Council for Teachers of Mathematics (NCTM).

GRANTS AND PROJECTS

Grants Under Review

- 2023 Faculty Small Grants Proposal \$10,000
Addressing Diverse Learners' Needs Using Global Education Systems Approach
PI: Gupta, Uditia
- 2023 University Teaching Grant \$6450
Mentors mentoring Mentors
PI: Gupta, Uditia

Funded Projects

- 2022 *UITE-CONNECT* (Project), UITE, College of Education, University of Utah
PI: Gupta, Uditia, McCandless, Peggy; Co-PI: Burbank, Mary, Goldsmith, Melissa.
- 2022 *Site Teacher Mentoring & Development Project (STMDP)*, UITE, College of Education, University of Utah.
PI: Gupta, Uditia, Herman, Kerry
- 2022 Field-Work Pathways for TFU/Noyce Scholars, College of Education.
PI: Gupta, Uditia, Godsey, Holly, Burbank, Mary.

Funded Grant

- 2021 Dean's Post Pandemic Seed Grant, \$5000
En Route to Building a Collaborative and Reflective Mentoring Community.
PI: Gupta, Uditia; Co-PI: Burbank, Mary

Submitted (not funded)

- 2023 MUSE Seminar Proposal
Experiential Secondary School Teaching

- 2021 CEL Public Service Professor Award \$7500
Building a Collaborative Community with Mentor Teachers
PI: Gupta, Uditā
- 2021 Long View Foundation \$10,000
Internationalizing Teacher Preparation and Innovations
PI: Gupta, Uditā
- 2020 1U4U, University of Utah \$15,000
A Collective Faculty Analysis of Four Colleges' Diversity Action Plans
Co-PIs: Saraf, Sushma, Gupta, Uditā, Hoffman, Linda, Archuleta, Elizabeth, Rogers, Elizabeth
- 2020 Spencer Small Grants Program \$49,998
Impact of Self-Reflection Practices on Pre-Service Teachers' Meta-Cognitive Skills and Pedagogical Practice
PI: Gupta, Uditā; Co-PI: Zheng, Robert
- 2020 AERA Research Grants, \$25,000
Cohort Collaboration During Covid Times
PI: Gupta, Uditā
- 2020 University Teaching Grant \$2084
Revamping Knowledge Base in Teacher Preparation Program
PI: Gupta, Uditā
- 2019 William T. Grant Foundation \$49,997
Using Action Research as a Self-Reflective Strategy for Pre-Service Teachers
PI: Gupta, Uditā; CoPI: Zheng, Robert
- 2019 NAEd Postdoctoral Fellowship \$35,000
Decrypting the Encrypted: Interplay of Modes of Thinking and Cognitive Load For Pre-Service Teachers during High-Stakes Assessment
PI: Gupta, Uditā; CoPI: Zheng, Robert

FELLOWSHIPS, AWARDS AND ACKNOWLEDGEMENTS

- 2023-24 *Faculty Fellow, John R. Park Fellowship, University of Utah*
- 2022-23 *Faculty Fellow, VP-NSF Cohort, University of Utah.*
- 2022-23 *Faculty Fellow, Utah Pathways to STEM Initiatives (UPSTEM), University of Utah.*
- 2021 *Nominated, Early Career Teaching Award, College of Education, University of Utah.*
- 2020 *Scholar, NSF-STEM Education, University of Maryland.*

- 2018 *Invited Participation*, National Advisory Committee for ETS NOTE.
- 2018 *Reviewer Acknowledgement*, American Educational Research Association, Division K-Teacher and Teacher Education and Division K – Section 05: Preservice Teacher Education Coursework: Curriculum and Teaching to Improve Teacher Knowledge, Understanding and Pedagogical Practices.
- 2000 *Silver Medalist* (II Position in MS (Statistics)), Kanpur University, India

EDUCATIONAL CONSULTING AND PARTICIPATION

- 2022, Oct. *Consultation*, Global Teacher Education, Michigan State, Michigan.
- 2022, June *Lead*, Mentoring Opportunities for Secondary STEM Teachers in Granite School District to Boost Experimental Science Access and Opportunities for Diverse Students in Secondary Schools, In Collaboration with University of Utah Science and Education Fair (USEF) and Granite School District, Salt Lake City, Utah
- 2022, Sept. *Consultation*, Mentoring STEM Teachers Prior To Licensure Year, In Collaboration with TFU/Noyce Program, College of Education, University of Utah.
- 2018, Sept. *Invited Participation*, National Advisory Committee for ETS NOTE, ETS, Princeton, New Jersey

PROFESSIONAL ASSOCIATIONS

American Educational Research Association (AERA)
 National Council for Teachers of Mathematics (NCTM)
 Utah Council for Teachers of Mathematics (UCTM)
 Association for Supervision and Curriculum Development (ASCD)