

Juan Daniel Pinto

LEARNING SCIENTIST · EDUCATOR · DATA NINJA

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Education

University of Illinois at Urbana-Champaign

Urbana-Champaign, Illinois

PH.D. IN CURRICULUM AND INSTRUCTION

(Expected) 2025

- **Emphasis:** Digital Environments for Learning, Teaching, and Agency (DELTA)
- **Advisor:** Luc Paquette
- **Focus:** Educational Data Science
- **Current GPA:** 4.0

University of Michigan

Ann Arbor, Michigan

M.A. IN EDUCATIONAL STUDIES

August 2020

- **Emphasis:** Design and Technologies for Learning Across Contexts and Cultures
- **Advisor:** Donald Freeman
- **Certificate:** Learning Experience Design
- **GPA:** 4.0

The University of Texas at Austin

Austin, Texas

M.A. IN MIDDLE EASTERN LANGUAGES AND CULTURES

May 2018

- **Emphasis:** Hebrew Applied Linguistics
- **Supervisors:** Esther Raizen, Elaine Horwitz
- **Thesis:** *Creating a Frequency Dictionary of Spoken Hebrew: A Reproducible Use of Technology to Overcome Scarcity of Data*
- **GPA:** 3.97

Brigham Young University

Provo, Utah

B.A. IN ANCIENT NEAR EASTERN STUDIES

April 2016

- **Emphasis:** Hebrew Bible
- **Minors:** Linguistics, Modern Hebrew
- **GPA:** 3.92

Research Experience

Paquette Lab (University of Illinois at Urbana-Champaign)

Urbana-Champaign, Illinois

RESEARCHER

August 2020 – Present

- Collaborate on multi-year project evaluating knowledge engineering and machine learning methods for modeling novice computer science student debugging behavior.

(Human + Machine) Learning Lab (University of Illinois at Urbana-Champaign)

Urbana-Champaign, Illinois

STUDENT RESEARCHER

June 2021 – August 2021

- Conducted preliminary research to set the groundwork for large project exploring algorithmic fairness and potential bias in K-12 mathematics education using adaptive learning.
- Wrote code to allow for connectivity between various tools including Scikit-learn, pyBKT, and IBM's AI Fairness 360.

Center for Academic Innovation (University of Michigan)

Ann Arbor, Michigan

LEARNING EXPERIENCE DESIGN RESEARCH FELLOW

April 2020 – August 2020

- Led research project on project-based learning and COVID-19 in a computational thinking MOOC that led to publication (first author).
- Co-authored paper comparing discussion posts from one MOOC hosted on two platforms to be presented at academic conference in 2021.
- Advised additional ongoing research projects related to learning experiences designed at CAI.

Synthetic Phonics for Young EFL Learners (Oranim College of Education)

Kiryat Tiv'on, Israel

JUNIOR RESEARCHER

March 2019 – January 2020

- Conducted quantitative data analysis for experimental study measuring the effectiveness of a synthetic phonics approach to EFL reading education in elementary schools in Israel.

Peace Education During Colombia's Peace Process (University of Michigan)

Ann Arbor, Michigan

GRADUATE RESEARCH ASSISTANT

September 2019 – December 2019

- Managed team of undergraduate researcher assistants under supervision of Dr. Michelle Bellino.
- Translated large data set from Spanish and begin qualitative data coding and analysis.
- Cleaned, organized, and analyzed quantitative data for initial report.

Frequency Dictionary of Spoken Hebrew (University of Texas)

Austin, Texas

AUTHOR (M.A. THESIS)

August 2017 – May 2018

- Planned, conducted, and wrote M.A. Thesis under supervision from Drs. Esther Raizen and Elaine Horwitz.
- Learned to wrangle massive data sets to extract valuable information using Python.
- Developed project organization skills and time management abilities by experiencing the entire breadth of the research process.

Dead Sea Scrolls Editions (Brigham Young University)

Provo, Utah

RESEARCH ASSISTANT

September 2014 - August 2016

- Transcribed, reconstructed, dated, and analyzed biblical scrolls from cave 2Q at Qumran.
- Edited manuscripts for publication.
- Participated in many aspects of the research process, learned to use digital technologies for right-to-left languages, and gained editing experience.

Jewish Pompeii Project (Brigham Young University)

Provo, Utah

RESEARCH ASSISTANT

January 2015 - June 2015

- Conducted research for an in-depth faculty project dealing with the Jewish presence in Pompeii.
- Carried out on-site research in Pompeii and the Naples Museum with research team.
- Contributed to findings that led to multiple peer-reviewed publications by the supervising faculty members.

Ad-Deir Monument Plateau Excavation (Brigham Young University)

Petra, Jordan

STUDENT EXCAVATOR

January 2014 – June 2014

- Excavated as member of the archaeology field school team for the Ad-Deir Monument and Plateau Project.
- Transcribed and translated Nabataean coins as specialist in numismatics and language.
- Experienced archaeological research first-hand in part of this multi-year project, which led to various publications.

Chiasmus Research Project (L. Tom Perry Special Collections)

Provo, Utah

EDITORIAL ASSISTANT

April 2013 - September 2013

- Proofread, checked sources, organized documents, and conducted general research for the Chiasmus Collection at the L. Tom Perry Special Collections of the Harold B. Lee Library.
- Developed understanding of archival research and document management practices.

Religious Education (Brigham Young University)

Provo, Utah

RESEARCH ASSISTANT

September 2012 - April 2013

- Researched, organized, and suggested useful sources for academic papers and research projects to faculty member.
- Proofread and edited papers for presentation and publication.

Teaching Experience

College of Education (University of Illinois at Urbana-Champaign)

Urbana-Champaign, Illinois

GRADUATE TEACHING ASSISTANT

January 2022 – May 2022

- Lead discussion sections, present lectures, and grade assignments for *Disciplinary Literacy* course (CI 473).

College of Education (University of Illinois at Urbana-Champaign)

Urbana-Champaign, Illinois

GRADUATE TEACHING ASSISTANT

August 2021 – December 2021

- Helped manage discussion sections and graded assignments for *Assessing Student Performance* course (CI/EPsy 485).
- Qualified to be on the Center for Innovation in Teaching & Learning's *List of Teachers Ranked as Excellent by Their Students*.

College of Education (University of Illinois at Urbana-Champaign)

Urbana-Champaign, Illinois

GRADUATE TEACHING ASSISTANT

August 2020 – December 2020

- Led discussion section for students in *Introduction to Digital Learning Environments* course (CI 210).
- Qualified to be on the Center for Innovation in Teaching & Learning's *List of Teachers Ranked as Excellent by Their Students*.

School of Education (University of Michigan)

Ann Arbor, Michigan

GRADUATE STUDENT INSTRUCTOR

September 2019 - April 2020

- Led discussion sections for students in *History of College Athletics* courses taught by John U. Bacon and Scott Westfall.
- Interacted with students and provide feedback at every level of their essay writing.
- Expanded abilities to prepare and lead engaging discussions.

VIPKid

Online (Remote)

TEACHER OF ENGLISH AS A FOREIGN LANGUAGE

May 2017 - August 2019

- Taught English online to children in China, ages 5–12. Courses taught include general English, phonics, “summer camp” English, and TOEFL Primary prep classes.

International School (Oranim Academic College of Education)

Kiryat Tiv'on, Israel

FULBRIGHT ENGLISH TEACHING ASSISTANT

October 2018 - June 2019

- Led class discussions in various advanced courses (*Academic Writing, Rhetoric, Linguistics*) for future English teachers.
- Designed and taught *English for the Workplace Conversation Course* for international students.
- Prepared digital platform and led workshops for Masa Israel Teaching Fellows.

Center for Middle Eastern Studies (The University of Texas at Austin)

Austin, Texas

GRADUATE TEACHING ASSISTANT (INTENSIVE MODERN HEBREW)

August 2016 - May 2018

- Mentored students in their acquisition of Hebrew language and culture.
- Taught, aided with course organization, provided in-class feedback, graded, held office hours, and addressed student concerns.
- Developed confidence as an educator, both in front of the classroom and in one-on-one settings.

Department of Asian and Near Eastern Languages (Brigham Young University)

Provo, Utah

ASSISTANT INSTRUCTOR (INTENSIVE BIBLICAL HEBREW)

June 2015 - August 2015

- Taught the afternoon sessions of Summer Intensive Biblical Hebrew (HEB 131 and 132) under the direction of a faculty member.

David M. Kennedy Center for International Studies (Brigham Young University)

Provo, Utah

TEACHING ASSISTANT (INTRODUCTION TO ANCIENT NEAR EASTERN STUDIES)

September 2013 - December 2013

- Addressed student concerns, graded papers and exams, and assisted with general course organization for Introduction to Ancient Near Eastern Studies (ANES 201).

Additional Professional Experience

School of Education (University of Michigan)

Ann Arbor, Michigan

ONLINE COURSE TRANSITION ASSISTANT

March 2020 - May 2020

- Advised and supported faculty members with their emergency transition of residential courses to online during the COVID-19 pandemic.
- Gained personal experience on the difficulty of such a transition on short notice and develop insights on ways that current tools and systems can improve to better support instructors and learners during future crises.

Center for Academic Innovation (University of Michigan)

Ann Arbor, Michigan

LEARNING EXPERIENCE DESIGN STUDENT RESIDENT

September 2019 - April 2020

- Worked collaboratively with faculty and staff to design, analyze, and implement innovative learning experiences and tools in online and residential environments.
- Gained in-depth understanding of learning design, develop greater project collaboration skills, and experience first-hand the course development process.

Religious Studies Center (Brigham Young University)

Provo, Utah

EDITOR-IN-CHIEF, *Studia Antiqua*

June 2015 - July 2016

- Managed submission requests and coordinated faculty reviews of articles for the student publication *Studia Antiqua*.
- Led team of editors, performed typesetting and polishing using Adobe InDesign, and oversaw final publication of completed issues.
- Implemented a new ePub format for the journal.

David M. Kennedy Center for International Studies (Brigham Young University)

Provo, Utah

COORDINATION ASSISTANT

September 2012 - April 2016

- Organized and managed students, course scheduling, program budget, and faculty meetings for the Ancient Near Eastern Studies major.
- Coordinated all aspects of guest lecturer visits.
- Gained organization skills and learned to oversee a large department budget.

Publications

What We Learned When We Compared Discussion Posts from One MOOC Hosted on Two Platforms

QUINTANA, R. M., PINTO, J. D., & TAN, Y. (2021). *Online Learning Journal*, 25(4), 101–118.

2021

DOI:10.24059/OLJ.V25I4.2897

Exemplifying Computational Thinking Scenarios in the Age of COVID-19: Examining the Pandemic's Effects in a Project-Based MOOC

PINTO, J. D., QUINTANA, C., & QUINTANA, R. M. (2020). *Computing in Science & Engineering*, 22(6), 97–102.

2020

DOI:10.1109/MCSE.2020.3024012

Lexical Variation in the Understanding of bara': Homonymy or Polysemy?

Studia Antiqua 14, NO. 1 (SPRING 2015): 20–29.

2015

The Sacrificed God and Man's Creation: Nonaggressive Violence in the Mesopotamian Atraḥasis

Studia Antiqua 13, NO. 2 (FALL 2014): 14–25.

2014

Academic Presentations

Investigating Elements of Student Persistence in an Introductory Computer Science Course

2021 EDUCATIONAL DATA MINING IN COMPUTER SCIENCE EDUCATION (CSEDM) WORKSHOP

Virtual

June 2021

Exploring How Learners Integrate Personally Meaningful Issues in a Project-Based MOOC

2021 AMERICAN EDUCATIONAL RESEARCH ASSOCIATION (AERA) ANNUAL MEETING

Virtual

April 2021

What We Learned When We Compared Discussion Posts from One MOOC Hosted on Two Platforms

2021 AMERICAN EDUCATIONAL RESEARCH ASSOCIATION (AERA) ANNUAL MEETING

Virtual

April 2021

Personalizing Digital Learning Environments

RESEARCH EVALUATION AND ACTION PLAN (REAP) SYMPOSIUM

Urbana-Champaign, Illinois (Virtual)

July 2020

Using Data to Inform Learning Experience Design

ACADEMIC INNOVATION 2020 STUDENT SHOWCASE

Ann Arbor, Michigan (Virtual)

April 2020

Panel Participant: The Role Students Should Play in the Design, Collection, and Analysis of Learning Analytics

ACADEMIC INNOVATION DATA SHOWCASE

Ann Arbor, Michigan

February 2020

Creating a Conversational Hebrew Vocabulary List: A Reproducible Use of Technology to Overcome Scarcity of Data

NATIONAL COUNCIL OF LESS COMMONLY TAUGHT LANGUAGES (NCOLCTL) 21ST ANNUAL CONFERENCE

Herndon, Virginia

April 2018

Transitional Semi-Allophonic Spirantization in Tiberian Hebrew

JIL JADID GRADUATE STUDENT CONFERENCE IN MIDDLE EASTERN LANGUAGES AND LITERATURES

Austin, Texas

February 2018

Lexical Variation in the Understanding of bara': Homonymy or Polysemy?

STUDENTS OF THE ANCIENT NEAR EAST 8TH ANNUAL SYMPOSIUM

Provo, Utah

January 2015

Spare [Them] a Little Longer: The Role of Prophetic Intercession in the Preservation of the Lord's People

BYU RELIGIOUS EDUCATION STUDENT SYMPOSIUM

Provo, Utah

2013

Invited Lectures

#merica: History, Culture, and Diversity

SPARKS OF CHANGE—GALILEE DREAMERS ORIENTATION

Albany College, Deir el-Asad, Israel

February 2019

Words, Collocations, and Technology: Teaching and Learning Vocabulary

MASA ISRAEL TEACHING FELLOWS SEMINAR

Tel Aviv, Israel

January 2019

Language Learning for the 21st Century: Interpersonal Communication Through Digital Communities

TEXAS LANGUAGE CENTER: "LANGUAGE MATTERS!" LECTURE SERIES

Austin, Texas (presented remotely)

October 2018

Honors & Awards

2nd CSEDM Data Challenge Winner (Phase 1, 2nd Prize)

EDUCATIONAL DATA MINING IN COMPUTER SCIENCE EDUCATION (CSEDM)

2022

List of Teachers Ranked as Excellent by Their Students

CENTER FOR INNOVATION IN TEACHING & LEARNING (CITL), UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Urbana-Champaign, Illinois

2020, 2021

Illinois Distinguished Fellowship

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Urbana-Champaign, Illinois

2020–2023

Summer Pre-Doctoral Institute Fellowship

GRADUATE COLLEGE, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Urbana-Champaign, Illinois

2020

James A. Kelly Learning Levers Development Award

CENTER FOR EDUCATION DESIGN, EVALUATION, AND RESEARCH (CEDER), UNIVERSITY OF MICHIGAN

Ann Arbor, Michigan

2020

Graduate Student Instructorship

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

Ann Arbor, Michigan

2019–2020

Educational Studies Fellowship

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

Ann Arbor, Michigan

2019–2020

Love of Learning Award

THE HONOR SOCIETY OF PHI KAPPA PHI

Baton Rouge, Louisiana

2019

J. William Fulbright Fellowship to Israel

J. WILLIAM FULBRIGHT FOREIGN SCHOLARSHIP BOARD

Washington, D.C.

2018–2019

NFMLTA Travel Support Grant for Language Professionals

NATIONAL FEDERATION OF MODERN LANGUAGE TEACHERS ASSOCIATIONS

2018

Love of Learning Award

THE HONOR SOCIETY OF PHI KAPPA PHI

Baton Rouge, Louisiana

2017

Graduate Student Teaching Assistantship

MIDDLE EASTERN LANGUAGES AND CULTURES, THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, Texas

2016–2018

BYU Representative for Phi Kappa Phi Fellowship

THE HONOR SOCIETY OF PHI KAPPA PHI, BRIGHAM YOUNG UNIVERSITY CHAPTER

Provo, Utah

2016

Full Tuition Academic Scholarship

BRIGHAM YOUNG UNIVERSITY

Provo, Utah

2015–2016

ORCA Research Grant

OFFICE OF RESEARCH AND CREATIVE ACTIVITIES, BRIGHAM YOUNG UNIVERSITY

Provo, Utah

2015

Language Facilitator Scholarship

FOREIGN LANGUAGE STUDENT RESIDENCE, BRIGHAM YOUNG UNIVERSITY

Provo, Utah

2015

Kennedy Scholar

DAVID M. KENNEDY CENTER FOR INTERNATIONAL STUDIES, BYU

Provo, Utah

2014–2015

Eugene D. and Edna L. Connor Academic Scholarship

BRIGHAM YOUNG UNIVERSITY

Provo, Utah

2014–2015

Jennifer C. Groot Fellowship

AMERICAN CENTER OF ORIENTAL RESEARCH

Amman, Jordan

2014

Karl G. Maeser Academic Scholarship

BRIGHAM YOUNG UNIVERSITY

Provo, Utah

2013–2014

Extracurricular & Community Outreach

International Educational Data Mining Society

ASSISTANT WEBMASTER

Virtual

2021–Present

UIUC Campus Bike Center

VOLUNTEER

Champaign, Illinois

2021–Present

Sunrise Movement

MEMBER

Normal, Illinois

2020–Present

Shimshit English Club

SENIOR MENTOR FOR ENGLISH STUDENTS AT RAEIM SCHOOL

Shimshit, Israel

2018–2019

Paper Airplanes

ONLINE ESL TUTOR FOR REFUGEES

Remote (online)

2017

Boy Scouts of America - Troop 99

DEN LEADER

Austin, Texas

2016–2017

International Rescue Committee

CIVICS AND CITIZENSHIP ESL TUTOR FOR REFUGEES

Salt Lake City, Utah

2016

Students of the Ancient Near East (Brigham Young University)

PRESIDENT

Provo, Utah

2015–2016

Students of the Ancient Near East (Brigham Young University)

VICE PRESIDENT

Provo, Utah

2013–2015

The Church of Jesus Christ of Latter-day Saints

VOLUNTEER REPRESENTATIVE

Las Vegas, Nevada

2009–2011

Languages

Spanish Native

English Native

Hebrew Superior

French Conversational

Arabic Limited

Technical Skills

Data Science Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn), R

Web Programming HTML, CSS, Javascript, Python, Hugo, Jekyll

Other Adobe Creative Cloud (Photoshop, Illustrator, XD), Git, LaTeX