Raymond Patt
Curriculum Vitae

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University of Delaware

School of Education

Newark, Delaware 19716

Education

| University of Delaware | Ph.D. | | Education | 2020-(2024) |
| | | | Specialization: Learning Sciences | |

The Ohio State University	B.S.	Honors Neuroscience and Linguistics	2016-2020
Overall GPA: 3.53		Specialization: Computation and Cognition	
Major GPA: 3.71		Minor: Computer & Information Sciences	

| University of Missouri | Advanced Credit Program - High School | 2014-2016 |

| Saint Louis University | Advanced Credit Program - High School | 2014-2016 |

Awards & Honors

Honors Research Distinction in Linguistics	2020
Buckeye Gymnastics C.A.R.E.S Leader	2019
Undergraduate Research Scholarship	2019
Second Year Transformational Experience Grant	2019
Dean's List (AU16, AU17, SP18, AU18, SP19, AU20, SP20)	2016-2020
Metal Services Center Institute Scholarships	2016-2019
National Buckeye Scholarship	2016-2020
Maximus Scholarship	2016-2020

Research Statement

Currently, I study child development and language acquisition. Going forward, I plan to research the design of inclusive, accessible, and effective educational mobile-phone applications based on learning science, cognition, and human-computer interaction. I focus on pre-existing technologies, such as mobile phones, to narrow the education gap through the use of accessible and affordable technologies.

Research Experience

Developmental Language and Cognition Lab   **OCT 2017-CURRENT**
Project Title: *Children's Mental Representations of Linguistic Aspect*   Advisor: Dr. Laura Wagner
- Designed, conducted, and writing an original honors thesis
- Recruited child and adult participants at Columbus' Center of Science and Industry (COSI)
- Analyze data to categorize linguistics' interaction with children's mental representations

Child Language Ability Lab/Cross-College Seed Grant   **JUN 2018-CURRENT**
Project Title: *Assessing Student's Narrative Language:*   Advisors: Dr. Monique Mills
Emic and Etic perceptions   & Dr. Leslie Moore
- Studied educational race disparities and culturally fair language measurements.
- Transcribed interviews using Systematic Analysis of Language Transcripts (SALT)

- Diligently produced accurate and precise transcriptions by strict deadlines

Language Science Research Lab   **MAY 2019-AUG 2019**

Project Title: *The Language of Science and the Science of Language*   Advisor: Dr. Nikole Patson

- Recruit child and adult participants to study learning in informal science settings
- Collaborate with NSF REU students to develop individual research projects
- Communicated weekly with a graduate student to convey recruitment progress

Undergraduate Research Seminar   **AUG 2018-DEC 2018**

Project Title: *An ICALL system for L2 Spanish*   Advisors: Dr. Robert Levine

Past Tense Development   & Dr. Detmar Meurers

- Synthesized my thesis with my interest in educational technology
- Design an online experiment to test effects of adaptive media interventions on L2 learning
- Recruited 120 undergraduate Spanish students of varying skill levels

Conferences

Boston University Conference on Language Development | Boston, MA   **NOV 2019**

Project Title: *Development of a Sense of an Ending*   Poster

Patt, R., Wagner, L., Arunachalam, S. (2019, November). *Development of a Sense of Ending*. Poster session presented at Boston University's conference on Child Language Development, Boston, MA.

Second Year Transformational Experience Expo | Columbus, OH   **NOV 2019**

Project Title: *Children's Mental Representation of Linguistic Aspect*   Poster

Patt, R. (2019, November). *Children's Mental Representations of Linguistic Aspect*. Poster session presented at Second Year Transformational Experience Expo, Columbus, OH.

AI For Good Global Summit | Geneva, Switzerland   **MAY 2019**

International Telecommunications Union   Attended

CCBS Undergraduate Summer Institute | Columbus, OH   **JUN 2018-AUG 2018**

Center for Cognitive and Brain Sciences   Attended

Publications

Patt, R., Wagner, L., Arunachalam, S. (2020). *Development of a Sense of an Ending*. BUCLD 44: Proceedings of the 44th annual Boston University Conference on Language Development. Somerville, MA: Cascadilla Press.

Programming Experience

The Cummings School   **MAY 2019-JUL 2019**

Project: Multi-language Shape Learning Game   Supervisor: Amirah C. Cummings

- Review literature on the acquisition and linguistic representations of shapes
- Developed an online game to encourage shape learning in a foreign language

Language Science Research Lab   **JAN 2018-MAR 2018**

Project: Data Collection Application   Supervisor: Dr. Laura Wagner

- Self-taught Apple's Swift programming language, model-view-controller architectures, and Google's RESTFUL API

- Developed an iPad application with customizable experimental designs for data collection at Columbus' Center of Science and Industry

Teaching Experience

Buckeye Gymnastics   **JUN 2018-JUL 2020**
Gymnastics Instructor   Columbus, OH
- Teach beginner, intermediate, and advanced gymnastics, ninja-warrior, and tumbling classes
- Design effective weekly lesson plans based on progressive skill development
- Encourage motor development in 1-to-10-year-old children

xPlorer's LEGO Robotix Summer Camp   **JUN 2017-JUL 2017**
English and Robotics Instructor   Toledo, Spain
- Taught Spanish speaking children aged 3-10 English and Robotics
- Encouraged programming skill development for boys and girls
- Provided a safe space for children's L2 English language use and practice

Neuroscience Advising Office   **JAN 2017-DEC 2018**
Neuroambassador   Columbus, OH
- Guide incoming undergraduate students through the scheduling process
- Create communities within the Neuroscience major focusing on Cognitive Science
- Connect other undergraduate students with one another at major-related events

Programming/Natural Languages

- Python
- Java
- Swift
- JavaScript
- R
- MATLAB
- C
- HTML/CSS
- Spanish (Advanced)
- Chinese (Beginner)