

Sotheara Veng
Curriculum Vitae
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EDUCATION

Ph.D. Learning Sciences, University of Delaware, (Expected graduation: 2027)

M.Ed. Educational Technology, University of Delaware, 2023

GPA: 4.00

B.Ed. Education, Royal University of Phnom Penh, 2017

GPA: 3.74 4th Place Top Graduate

EXPERIENCE

Research Assistant. University of Delaware, College of Education and Human Development, School of Education.

November 2021-Present

Dr. Teomara Rutherford's Lab

Project: *ST Math - Teacher Proximity and Student-Reported Emotions*

Description: ST Math is a digital Program that builds a deeper conceptual understanding of math, on student motivation, cognitive skills, and mathematics sub-skills. The project examines the relationship between teachers' physical proximity, teacher actions, and student-reported emotions while ST Math is being used.

Responsibilities:

- Conducted classroom observations of ST Math use
- Conducting literature reviews
- Adapting a coding framework for teachers' movements, actions, and physical distances
- Analyzing observation data

Project: *Students' Motivation in Learning Fractions Through Fraction Sense Intervention*

Description: The purpose of the project is to examine the efficacy of the Fraction Sense Intervention in assisting and motivating 6th-grade students with math learning disabilities to learn fractions.

Responsibilities:

- Analyzing class materials and resources
- Analyzing transcripts of teachers teaching fraction classes

Project: *Computer Science Pathways Project*

Description: This project aims to measure and improve student learning in introductory Computer Science courses.

Responsibilities:

- Conducting literature reviews
- Developing computer science pathway diagrams

- Analyzing students' responses to open-ended questions

Dr. Chrystalla Mouza's Projects

Project: *Partner for Computer Science (Partner4CS) & Computer Science for Delaware (CS4DE)*

Description: Partner4CS is a project aiming to prepare teachers for computer science education and promote the implementation of computer science curricula in Delaware. CS4DE is a project conducted in a networked improvement community (NIC) in which researchers and practitioners collaborate, design, and study professional development and instructional approaches focusing on the implementation of computer science standards in middle schools in Delaware.

Responsibilities:

- Working with instructors to collect data
- Taking field notes
- Observing classroom activities
- Conducting literature reviews
- Entering, sorting, and analyzing students' qualitative and quantitative data

Project: *Teaching Cybersecurity via Zenbo Robot*

Responsibilities:

- Produced accurate and precise transcriptions
- Conducted literature reviews
- Observed students' learning behaviors
- Conducted thematic analyses on qualitative data

Academic Technology Intern. University of Delaware, Academic Technology Services, March 2022 – August 2022

- Maintained video recording facilities
- Assisted faculty members with learning management systems,
- Edited videos, troubleshooting new technology, and basic website maintenance

Project: *Developing performance Analytic Dashboard*

- Developed means to collect instructional designers' work data
- Built a platform to automatically analyze and present data
- Designed a user-friendly dashboard for the management team
- Future-proofed the dashboard for the next five years

Curriculum Advisor. We Educate STEAM (WESTEAM), December 2021 – December 2022

WESTEAM has been established to provide Cambodian youth the opportunity to have better access to computer science, mathematics, and data science education.

- Provided consultation regarding lesson plans and activities used in each session

- Offered suggestions on curriculum development, materials used, and learning experience design

University Lecturer & Teacher Trainer. Royal University of Phnom Penh, Institute of Foreign Languages, Department of English,
November 2017 – August 2021

- Constructed lesson plans and assessments
- Taught various subjects including Critical Thinking, Literature Studies, Foundations of Education, and Educational Psychology
- Provided evaluation and feedback on students' progress
- Provided supervision to teacher trainees
- Evaluated teacher trainees' performance and teaching during teaching practicums
- Conducted workshops relating to teaching practicum
- Participated in research activities regarding education

Project: *University Online Exam Development*

- Constructed a blueprint for the exam platform operation and management
- Designed the procedures and guidelines for operating the university's online exam platform
- Put together a support team and formed strategies to facilitate the examinations
- Created training content, tutorial videos, and regulations for faculty members, students, and support teams
- Checked for irregularities before, during, and after the examinations.

Project: *Piloting "Critical Thinking" Subject*

- Formulated expected learning outcomes for the new critical thinking course
- Planned the assessments for the course
- Presented the progress and findings at the end of the academic years

COURSE DEVELOPMENT EXPERIENCE

Course Codeveloper, School of Education, University of Delaware, 2023

- **Intermediate ANOVA and Regression**

Course Codeveloper, Department of English, Institute of Foreign Languages, 2018

- **Critical Thinking (CT302)**

PUBLICATIONS

Veng, S. (2022). Using an Online Student Response System to Promote Student Engagement in Critical Thinking Classes. *International Journal of TESOL Studies*, 5(1).
<https://doi.org/10.58304/ijts.20230106>

Veng, S. (2019). *Cyberspace, a Facilitator of Development Process*. Cambodia Development Center. Retrieved August 15, 2021, from https://cd-center.org/wp-content/uploads/2019/05/P126_20190524_E17_EN.pdf

CONFERENCE PROCEEDINGS AND PRESENTATIONS

Lee, H. R., **Veng, S.**, Cao, Y., Baer, J., Bart, A. C., & Rutherford, T. (2023). Work-in-progress: Exploring the computer science curriculum from undergraduate students' perspectives. In *2023 ASEE Annual Conference & Exposition*. Baltimore, MD, United States.

Veng, S., Mouza, C. & Pollock, L. (2023). Examining the Design and Outcomes of an After-School Physical Computing Program in Middle-School. In E. Langran, P. Christensen & J. Sanson (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2316-2326). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE).

Veng, S., Cao, Y., Baer, J., Lee, H. R., Bart, A. C., & Rutherford, T. (2023, August 3–5). *A student-centered perspective investigation of the computer science pathway* [Poster presentation]. APA 2023 Convention, Washington, DC, United States.

Lee, H. R., Rodrigues, A., **Veng, S.**, & Rutherford, T. (2023, August 3–5). *Association between science motivation and STEM careers among a middle and high school sample* [Poster presentation]. APA 2023 Convention, Washington, DC, United States.

Veng, S., & Heng, S. (2020, January 12). *Let's Talk: Teaching speaking in EFL classrooms*. [Conference presentation]. Edcamp Cambodia, Kampot, Cambodia.

Veng, S. (2019). *Integrating critical thinking into English classrooms* [Conference presentation]. CamELT, Phnom Penh, Cambodia.

Veng, S., & Heng, S. (2019, February 15). *Codeswitching: Cambodian EFL teachers' attitudes and perceptions towards their use of L1* [Conference presentation]. 15th Annual CamTESOL Conference on English Language Teaching, Phnom Penh, Cambodia.

ACHIEVEMENTS & HONORS

August 2023 Dean's Scholar Awardee, School of Education, University of Delaware

August 2021 Fulbright Foreign Student Program Awardee

October 2020 Outstanding Teaching Award for Foundations of Education 401 and Educational Psychology 402, Institute of Foreign Languages, Royal University of Phnom Penh

October 2019	Outstanding Teaching Award for Literature Studies 301 and Critical Thinking 302, Institute of Foreign Languages, Royal University of Phnom Penh
January 2019	Semifinal Round Chief Adjudicator and Final Round Adjudicator at the 4th PDA High School Parliamentary Debate
September 2018	Guest adjudicator of the ASEAN Intergovernmental Commission on Human Rights Debate
February 2018	CamTESOL Regional ELT Research Grant recipient
July 2017	4th place outstanding student (senior year) of the Department of English, Institute of Foreign Languages, Royal University of Phnom Penh
September 2017	2 nd runner up of Supreme Writing Contest the Future of Cambodia 2017 under the topic of “How to promote Cambodia to the world” organized by ITIC, World Vision, and Siam Cement Group
September 2017	1 st runner-up of Cambodian Students Association in Japan’s essay and presentation contest
August 2017	Adjudicator of United Asian Debating Championship Competition 2017, Siem Reap, Cambodia
June 2017	Best Mentor of Institute of Foreign Languages’ Debate Club 2016 - 2017
May 2017	Champion of the Cambodia Development Center’s ‘Cyberspace’ Essay Contest
February 2017	Top ten finalist in the ASEAN Knowledge Line Contest Season 2 organized by Cambodia-ASEAN International Institute
December 2015	3rd place outstanding student (2 nd year) of the Department of English, Institute of Foreign Languages, Royal University of Phnom Penh
April 2015	National Finalist of MayBank Go Ahead Challenge in Cambodia

LANGUAGE SKILLS

English: Proficient, IELTS 8.5 (2018), TOEFL 110 (2019)

RESEARCH SKILLS

- Transcription
- Interview
- Participant Recruitment
- Classroom Observation
- Microsoft Excel
- Statistical Package for the Social Sciences (SPSS)
- R
- NVivo