

H A Y F O R D A . P E R R Y F O R D S O N , D . E N G . ( P h . D . )

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## OBJECTIVE

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Detail-oriented bench researcher with substantial background in artificial intelligence, affective computation, neuroscience, emotion and pain recognition, and business aim to achieve excellence and increase productivity using scientific knowledge to solve practical problems

## EDUCATION

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2022-2024

Postdoc. Information and Communication Engineering/ Neuroscience  
Cornell University, Ithaca, NY, U.S.A.  
Advisor: Adam Anderson and Eve De Rosa

2018-2022

Ph.D. (D.Eng.). Information and Communication Engineering  
South China University of Technology, Guangdong, China  
Thesis: Multimodal Physiological Data Analysis for Emotion Recognition  
Advisor: Xiangmin Xu

2016-2018

M.Eng. Information and Communication Engineering  
South China University of Technology  
Thesis: Research on Emotion Recognition and Feature Learning Methods Based on Multimodal Human Data  
Advisor: Xiangmin Xu

2012-2016

B.Eng. Computer Science and Technology  
South China University of Technology  
Thesis: Online Design and Implementation System  
Advisor: Xiangmin Xu and Li Jian

## PROFESSIONAL EXPERIENCE

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2025-Date

Founder and CEO  
Objective pain, Inc.

2023-2024  
Vice Chairman  
Institute of Electrical and Electronics Engineers (IEEE), Ithaca Section

2022-Date  
Postdoctoral Associate  
Affect and Cognitive Lab  
Department of Psychology  
Cornell University

2016-2022  
Research Assistant  
Center for Human Body Data Science  
School of Electronic and Information Engineering  
South China University of Technology, Guangdong, China

#### AWARDS AND HONORS

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2024  
Ignite Fellow for New Ventures

2018  
Chinese Scholarship Council Award

2016  
South China University of Technology Outstanding Leadership Award

2012  
South China University of Technology Best Student and Full Attendance Award

#### LANGUAGES

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English  
Chinese  
French

#### PUBLICATIONS

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**Hayford Perry Fordson**, Adam Anderson and Eve DeRosa, “*Deep Artificial Denoising Auto-Encoder-Decoder Pain Recognition System*”. 2023 IEEE International Conference on Machine Learning and Cybernetics (ICMLC), Adelaide, Australia, 2023. pp. 75-81. doi:10.1109/ICMLC58545.2023.10327969

**Hayford Perry Fordson**, Xiaofen Xing, Kailing Guo, Xiangmin Xu, Adam Anderson, and Eve DeRosa (2023). “*Hyper Enhanced Learning System for Emotion Recognition*”. In: Obeid, I., Picone, J., Selesnick, I. (eds) *Signal Processing in Medicine and Biology*. Springer, Cham. doi:10.1007/978-3-031-21236-9\_1

**Hayford Perry Fordson**, Katherine Gardhouse, Nicholas, Cicero, Junichi Chikazoe, Adam Anderson and Eve DeRosa, “*A Novel Deep Learning Based Emotion Recognition Approach To Well Being from Fingertip Blood Volume Pulse*”. Proceedings of the 2022 IEEE International Conference on Machine Learning and Cybernetics (ICMLC) 2022. pp. 130-137. doi:10.1109/ICMLC56445.2022.9941301

**Hayford Perry Fordson**, Xiaofen Xing, Kailing Guo and Xiangmin Xu. “*Emotion Recognition With Knowledge Graph Based on Electrodermal Activity*”, Front. Neurosci. 16:911767. pp. 1-12 (2022). doi: 10.3389/fnins.2022.865201

**Hayford Perry Fordson**, Xiaofen Xing, Kailing Guo and Xiangmin Xu. “Not All Electrode Channels Are Needed: Knowledge Transfer From Only Stimulated Brain Regions for EEG Emotion Recognition“, Front. Neurosci.16:865201. pp.1-13 (2022). doi:103389/fnins.2022.911767

**Hayford Perry Fordson**, Xiaofen Xing, Kailing Guo and Xiangmin Xu “*A Feature Learning Approach Based on Multimodal Human Body Data for Emotion Recognition*”, 2021 IEEE Signal Processing in Medicine and Biology Symposium (SPMB) 2021, pp. 1-6. doi:10.1109/spmb52430.2021.9672303

Shuzhen Li, Xiaofen Xing, Weiquan Fan, Bolun Cai, **Perry Fordson**, and Xiangmin Xu. “*Spatiotemporal and frequential cascaded attention networks for speech emotion recognition*”, Neurocomputing 448 (2021) 238-248. doi: 10.1016/j.neucom2021.02.094.