Rongbing Xu

PHD STUDENT · SYSTEMS DESIGN ENGINEERING (AERONAUTICS)

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Educatio	n	
University of PH.D. IN SYST Advisor: Di	ems Design Engineering (Aeronautics)	Waterloo, ON, Canada 2024-Present
University of M.A.Sc. IN SY Advisor: Di	STEMS DESIGN ENGINEERING	Waterloo, ON, Canada 2019-2022
-	f New Mexico PUTER SCIENCE Mathematics	Albuquerque, NM, USA 2016-2019
Professio	nal Experience	
2024- present 2022-2024 2019-2022	Graduate Teaching Assistant, University of Waterloo Research Assistant, University of Waterloo Graduate Teaching Assistant, University of Waterloo	
Publicati	ons	
PUBLISHED		
	, Shi Cao, Suzanne K. Kearns, Ewa Niechwiej-Szwedo, and Elizabeth Irving. 202 ng of pilot performance in pre-flight and take-off procedures. Journal of Aviatior 33(4), 2.	
	, Shi Cao. 2021. Modeling pilot flight performance in a cognitive architecture: mod he Human Factors and Ergonomics Society Annual Meeting. Vol. 65. No. 1.	del demonstration. Proceed
MASTER TH	ESIS	
	. 2022. Modeling pilot flight performance on pre-flight and take-off tasks with a c tp://hdl.handle.net/10012/18174	cognitive architecture. UWS
Awards, I	ellowships, & Grants	
2020-2022	Engineering Excellence Master's Fellowship, University of Waterloo	\$ 36,000
2016-2019	International Amigo Scholarship, University of New Mexico	\$ 48,000
Presenta	tions	
CONTRIBUT	ED DRECENTATIONS	

CONTRIBUTED PRESENTATIONS

Shi Cao, Ewa Niechwiej-Szwedo, Elizabeth Irving, John Munoz, and Rongbing Xu. 2023. Data Platform and Information Technologies Transforming General Aviation Pilot Training. Poster: Sustainable Aeronautics Summit 2023.

Rongbing Xu. 2022. Modeling Pilot Flight Performance on Take-off Task with QN-ACTR. Oral presentation: Virtual Math-Psych/ICCM 2022.

Rongbing Xu. 2022. Modeling Pilot Flight Performance in a Cognitive Architecture. Departmental seminar: Department of Systems Design Engineering, University of Waterloo.

Rongbing Xu and Shi Cao. 2021. Modeling Pilot Flight Performance in a Cognitive Architecture: Model Demonstration. Oral presentation: Human Factors and Ergonomics Society 65th Annual Meeting.

Teaching Experience _____

Fall 2024	Cognitive Ergonomics, Teaching Assistant, University of Waterloo	
Winter 2021	Data Structures and Algorithms, Teaching Assistant, University of Waterloo	
Fall 2021	Elementary Engineering Mathematics , Teaching Assistant, University of Waterloo	
Spring 2021	Data Structures and Algorithms, Teaching Assistant, University of Waterloo	
Winter 2021	Optimization and Numerical Methods, Teaching Assistant, University of Waterloo	
Fall 2020	Data Structures and Algorithms, Teaching Assistant, University of Waterloo	

Research Experience _____

ADVISOR: DR. SHI CAO

University of Waterloo - Waterloo Institute of Sustainable Aeronautics

Waterloo, ON, Canada

2022 - Present

· Project: "Data Platform and Information Technologies Transforming General Aviation Pilot Training"

Mitacs Waterloo, ON, Canada

Advisor: Dr. Shi Cao 2021

• Project: "Operator Space Situation Awareness in Space Object Tracking Tasks"

University of Waterloo - Department of System Design Engineering

Waterloo, ON, Canada

Advisor: Dr. Shi Cao 2019-2022

• Thesis: "Modeling Pilot Flight Performance on Pre-flight and Take-off Tasks with A Cognitive Architecture"

Outreach & Professional Development _____

PEER REVIEW

One journal I review for

IEEE Transactions on Human-Machine Systems