	johnkyle.cooper@kuleuven.be ♦ johnkylecooper.github.io	
Objective	Striving to gain research experience in the field of auditory neuroscience and apply that kn to the engineering of hearing aids and cochlear implants in a medical industry setting.	owledge
Education	KU Leuven, Leuven, Belgium	August '19
	Biomedical Sciences Doctoral Program	-May '21
	University of Rochester, Rochester, New York	August '19
	Masters of Science in Biomedical Engineering Cumulative GPA: 3.878/4.000	-May '21
	Texas A&M University, College Station, Texas	May '19
	Bachelor of Science in Biomedical Engineering, Minor in Electrical Engineering Cumulative GPA: 3.428/4.000	
	Biomedical Engineering Fast-Track Program, Texas A&M University Fall '1	8-Spring '19
	Study Abroad: Germany Biosciences Program, Bonn, Germany	Spring '17
	Greece Engineering Ethics, Thessaloniki, Greece	Winter '18
Teaching Experience	Teaching Assistant, University of Rochester, Rochester, New York	Spring '20
	Course: Biomaterials	
	• Assisted students with learning the basic concepts of biomaterials by leading lab sessions, review sessions, and weekly office hours. Underwent weekly discussion with the teaching professor to improve the teaching methods and learning environment for the students.	
Research Experience	FWO Strategic Basic Research PhD Fellow, KU Leuven Leuven, Belgium PI: Dr. Tom Francart	Nov '21 -Present
	• Awarded FWO Strategic Basic (SB) Research PhD Fellowship to work with the Experimental Oto-rhino-laryngology (ExpORL) lab to further develop a realistic and objective measure of speech understanding in both normal hearing and hearing impaired listeners using electroencephalography (EEG).	
	B.A.E.F. Fellow, KU Leuven Leuven, Belgium PI: Dr. Tom Francart	Oct '21
	• Awarded Belgian American Educational Foundation (B.A.E.F.) fellowship to work with the ExpORL lab to evaluate this realistic and objective measure of speech understanding for normal-hearing listeners using EEG.	-Present
	Research Assistant, University of Rochester, Rochester, New York PI: Dr. Ross Maddox	August '19 -May '21
	• Serve as a lab manager through subject recruitment & scheduling, ordering lab supplies, and assisting with the lab experiments.	
	\bullet Conduct \sim 70 EEG experiments for an NSF funded study aimed to investigate potential neural differences in the auditory brainstem between musicians and non-musicians.	
	Undergraduate Research Scholars Program, Texas A&M University	August '18
	• Wrote undergraduate thesis on the application of multi-tonal complex stimuli with Optical Coherence Tomography imaging for vibrometric analyses of inner-ear structures.	-May '19
	Undergraduate Summer Research Grant, Texas A&M University	Summer '18
	• Summer research opportunity under the guidance of a faculty mentor, a postdoctoral fellow, and advanced graduate students.	
	Research Assistant, Texas A&M University, College Station, Texas PI: Dr. Brian Applegate	August '16 -May '19
	• Conducted research focused on understanding cochlear pathophysiology and function using picometer sensitive, spatially resolved vibrometry in the ear.	v
	Biomedical Engineering Capstone, Lynntech Inc.	Fall '18
	• Worked with a group of biomedical engineers on an orthotic rehabilitation device.	-Spring '19
	• Tasked with documentation, 3-D modeling, construction, and programming of the device.	
	Research Assistant, Enmodes GmbH, Aachen, Germany	January '17
	• Assisted in the R&D of the Ras-Q (world's first long-term respiratory system).	-May '17
	• Modeled a prototype for presentation to the company.	

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Technical Skills	 Python, PyTorch (machine learning), MATLAB, R, C, Basic HTML and CSS, & LABV 2 years of EEG experience (Brain Vision software) SolidWorks & Blender (3-D design software) VR and Eye-tracking Technology & Unreal Engine (virtual reality engine) 	/IEW
	• 3D-Printing & Repetier Host Software (3-D printing applications)	
Presentations	BMES Conference, Atlanta, Georgia	October
	• Poster session presentation. Calibration of Multi-Tonal Complex for Optical Coherence Tomography Imaging System.	17-20, '18
	Undergraduate Research Scholars Symposium, Texas A&M University	February
	• Presented undergraduate thesis work completed through the Undergraduate Research Scholars Program.	27, '19
	SPIE Journal Club, Texas A&M University	August, '17
	• Optical Engineering Manuscript Review with Dr. Alvin Yeh.	-May, '19
	Air Force Workshop, Texas A&M University	June
	• The goal of this design experience was to provide input to Air Force Personnel to shape future research objectives.	27, '18
	Aggies Invent, Texas A&M University	Fall '17
	• Competed in a 48-hour development project and pitched to engineering experts.	Summer '18
	• (Summer '18) Hearing aid technology: shifting the pitch of incoming speech to improve intelligibility.	
	• (Fall '17) Orthpaedic rehabilitation device for bedridden patients.	
Other	CRASH/MASH Virtual Conference	October
Conferences Attended	• Joint conference focused on hearing research related to cochlear implants (CI) to brin together hearing and CI scientists to present CI-data, works in progress, or future directions.	
	Annual Neuroscience Symposium, Texas Brain & Spine Institute	October
	• Keynote lecture was given by Marc Diamond, M.D. (Director, Center for Alzheimer's an Neurodegenerative Diseases, UT Southwestern).	d 1, '18
	BMES Conference, Phoenix, Arizona	October
	• Served as volunteer for TAMU Social Event & participated in conference sessions.	11-14, '17
Mentorship/	Biomedical Engineering Society (BMES) - Mentor	August, '17
Leadership	• Serve as a mentor for undergraduates interested in the pursuit of a degree in Biomedical Engineering and/or graduate school.	-Present
	Peer Mentor (Engineering Living and Learning Community)	Fall '16
	• Served as a resource to incoming freshmen engineers and plan activities for the Engineering Living and Learning Community to foster community for academics.	
	Christian Engineer Leaders (CEL) - Committee Leader	Fall '16
	• Refined engineering and professional skills through leading fellow engineers.	
	• Learned how to be faithful witnesses for Christ both in industry and in missions.	
Professional Memberships	Association for Research in Otolaryngology (ARO) Biomedical Engineering Society (BMES) SPIE (the international society for optics and photonics) Christian Engineering Leaders (CEL)	
Honors	Fulbright Semifinalist for Open Study/Research Award to Belgium	'21
	BME Graduate Student Teaching Assistant Award Honorable Mention	'20
	Undergraduate Research Scholar	'19
	Distinguished Student Award, College of Engineering, Texas A&M University	'17
		'16 - Present
	High-School Valedictorian	'15
	Eagle Scout	'14
	Dago booti	