Objective	Striving to gain research experience in the field of auditory neuroscience and apply that k to the engineering of hearing aids and cochlear implants in a medical industry setting.	nowledge
Education	University of Rochester, Rochester, New York Masters of Science in Biomedical Engineering Cumulative GPA: 3.878/4.000	August '19 -May '21
	<b>Texas A&amp;M University</b> , College Station, Texas Bachelor of Science in Biomedical Engineering, Minor in Electrical Engineering Cumulative GPA: 3.428/4.000	May '19
		18-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	
	<ul> <li>Assisted students with learning the basic concepts of biomaterials by leading lab sessions review sessions, and weekly office hours.</li> </ul>	,
	• Underwent weekly discussion with the teaching professor to improve the teaching method and learning environment for the students.	5
Research Experience	Research Assistant, University of Rochester, Rochester, New York PI: Dr. Ross Maddox	August '19 -Present
	<ul> <li>Serve as a lab manager by recruiting and scheduling subjects for experiments, ordering lab supplies, and assisting with the experiments of other lab members.</li> <li>Conduct ~65 EEG experiments for an NSF funded study aimed to investigate potential differences in processing syllabic stimuli in the auditory brainstem between musicians and non-musicians.</li> </ul>	
	Undergraduate Research Scholars Program, Texas A&M University	August '18
	• Produced written 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.	
	• Coded an interactive view of 3-D cochlea scan using virtual reality equipment.	
	$\bullet$ Designed and built power supplies for an Optical Coherence Tomography imaging system.	
	• Implemented multi-tone calibration Python code into an inner-ear vibrometry analysis program and a laser diode into surgical ear endoscope.	
	Biomedical Engineering Capstone, Lynntech Inc.	Fall '18
	ullet Worked with a group of biomedical engineers on an orthotic rehabilitation device.	-Spring '19
	$\bullet$ 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.	
Technical Skills	<ul> <li>Python, PyTorch (machine learning), MATLAB, R, C, Basic HTML and CSS, &amp; LABV</li> <li>1 year of EEG experience (Brain Vision software)</li> <li>SolidWorks &amp; Blender (3-D design software)</li> </ul>	IEW
	<ul> <li>VR and Eye-tracking Technology &amp; Unreal Engine (virtual reality engine)</li> <li>3D-Printing &amp; Repetier Host Software (3-D printing applications)</li> </ul>	

John Kyle Cooper

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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
	• Presentations: Scanning laser optical tomography for in toto imaging of the murine cochlea by Nolte et al. (2017) & Phototactic guidance of a tissue-engineered soft-robotic ray by Park et al. (2016)	
	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
	• Worked as an integral part of a team selected to compete in a 48-hour development project and shared a presentation of the prototype developed for the competition.	& Summer '18
	• (Summer '18) Hearing aid technology: shifting the pitch of incoming speech to improve listener intelligibility.	
	• (Fall '17) Orthpaedic rehabilitation device for bedridden patients.	0 . 1
Other Conferences Attended	<ul> <li>CRASH/MASH Virtual Conference</li> <li>Joint conference focused on hearing research related to cochlear implants (CI) to br together hearing and CI scientists to present CI-data, works in progress, or fut directions.</li> </ul>	~
	Annual Neuroscience Symposium, Texas Brain & Spine Institute	October
	• Keynote lecture was given by Marc Diamond, M.D. (Director, Center for Alzheimer's a Neurodegenerative Diseases, UT Southwestern).	and 1, '18
	BMES Conference, Phoenix, Arizona	October
	• Served as volunteer for TAMU Social Event & participated in conference sessions.	11-14, '17
Mentorship/ Leadership	Biomedical Engineering Society (BMES) - Mentor	August, '17
	• Serve as a mentor for undergraduates interested in both the pursuit of a degree in Biomedical Engineering and graduate school. Attended weekly meetings and listened to speakers from different companies share their cutting edge biomedical technology, such as representatives from <i>Stryker</i> and <i>Medtronic</i> .	n -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.	e
	Christian Engineer Leaders (CEL) - Committee Leader	Fall '16
	$\bullet$ Refined engineering and professional skills through leading fellow engineers.	
	$\bullet$ Learned how to be faithful witnesses for Christ both in industry and in missions.	
Professional Memberships	SPIE (the international society for optics and photonics) Biomedical Engineering Society (BMES) Christian Engineering Leaders (CEL)	
Honors	BME Graduate Student Teaching Assistant Award Honorable Mention	'20
Honors	Ţ	'19
Honors	Undergraduate Research Scholar	
Honors	Undergraduate Research Scholar  Distinguished Student Award, College of Engineering, Texas A&M University	
Honors	Distinguished Student Award, College of Engineering, Texas A&M University	'17
Honors	Distinguished Student Award, College of Engineering, Texas A&M University Phi Eta Sigma National Honor Society	'17 '16 - Present
Honors	Distinguished Student Award, College of Engineering, Texas A&M University	'17