

# Scott “Esko” Brummel

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## Education

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### DUKE UNIVERSITY (2017-2018)

*Masters in Bioethics and Science Policy*

GPA: 3.9

#### Coursework

Spring '17: Science and the Media | Everyday Cognition | Clinical Bioethics | Contemporary Bioethics

Fall' 17: Polarization in Social Discourse | Law, Research, and Bioethics | Science, Law, and Policy | Science Communication

Spring '18: Trust in AI | Fortier Robotics | Polarization in Social Discourse | Algorithms and Journalism

### BOWLING GREEN STATE UNIVERSITY (2010-2015)

*BA in Liberal Arts with Honors*

GPA: 3.4; Honors GPA: 3.8; Dean's List Fall 2014, Spring 2015; Presidential Honors Cohort

## Current Academic and Research Affiliations

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<b>Humans and Autonomy Lab, Duke Robotics (2017-Present)</b>	Research associate: examining the interactions of Human and Computer Decision-Making
<b>Science Law and Policy Lab, Duke Science &amp; Society (2018-Present)</b>	Research assistant: Examining the ethical and legal issues of emerging technology
<b>AAAS (2017-Present)</b>	Member: Selected for Science Diplomacy and Catalyzing Advocacy in Science and Engineering Program

## Scholarship Experience

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<b>Published Papers</b>	Brummel, E. S., Ostdiek, P., Woerner, D., Hibbard, K., Stofan, E., Zakrajsek, J., & Cummings, M. L., "Identifying and Mitigating Barriers to the Adoption of Dynamic Radioisotope Power System for Space Flight," IEEE AeroConf, 2019.  Brummel S. (2017) Confronting Natural Conflicts of Interest with Artificial Intelligence. <i>Journal of Law and Biosciences</i> .
<b>Manuscripts in Review</b>	Browne, M.N., Rex J., Bouzat F. & Brummel S. (2015) Ask, Encourage, and Nurture Classroom Questions: The Essential Fuel for a Liberal Education that Persists <i>College Teaching</i> .
<b>Manuscripts in Preparation</b>	E. Scott Brummel, Kirsten M. Bleiweiss, Lydia Kwong, Krenzer, W. L. D., & Farahany, N. (2019). "Don't make me your sex machine": Individuals Judgements on their Right to Likeness

## Research Experience

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<b>Humans and Autonomy Lab, Duke Robotics Lab</b>	<b>Research Associate – Artificial Intelligence, Risk, Perception, and Society   Durham, NC   Oct 2017-Present)</b> <ul style="list-style-type: none"><li>- Research the multifaceted interactions of human and computer decision-making and risk assessment in complex sociotechnical systems with embedded autonomy</li><li>- Research and assess the opportunities and ethical concerns regarding the expandability and reliability of Artificial Intelligence programs' use in military, educational, social, medical, and personal contexts</li></ul>
<b>Duke Science and Society Policy Tracking: SciPol</b>	<b>Policy Editor – Robotics, Artificial Intelligence, and Quantum Sciences   Durham, NC   May 2018-Present</b> <ul style="list-style-type: none"><li>- Draft and publish policy briefs of recent government and judicial actions regarding Artificial Intelligence technology</li><li>- Identify relevant scientists conducting AI research to provide context and commentary to recent policy</li><li>- Manage a team of science policy writers and serve as final editor for content</li></ul>
<b>Science Law and Policy Lab, Duke Science &amp; Society</b>	<b>Research Assistant – Ethics, Law, and Emerging Consumer Technology   Durham, NC   Jan 2018-Present</b> <ul style="list-style-type: none"><li>- Research and assess opportunities and ethical concerns regarding the expanding use of emerging consumer technologies like Virtual Reality Headsets, personal robots, and EEGs</li></ul>

<b>Center for Family and Demographic Research</b>	<b>Research Assistant – Sociology and Psychology   Bowling Green, OH   Aug 2014-May 2015</b> <ul style="list-style-type: none"> <li>- Conduct literature review and data analysis research for “Neighborhood Change and Violence in Adolescence and Emerging Adulthood” using responses from over 80,000 questionnaires</li> <li>-</li> </ul>
<b>Bowling Green State University’s Center for Neuroscience, Mind, and Behavior</b>	<b>Research Assistant for Dr. Cordula Mora   Bowling Green, OH   May 2014-Jul 2014</b> <ul style="list-style-type: none"> <li>- Assist with release, tracking, and study of pigeon test subjects in determining navigation patterns</li> </ul>
<b>Bowling Green State University, Center for Undergraduate Research and Scholarship</b>	<b>Student Researcher – Cultural Anthropology   Bowling Green, OH   May 2013-Jul 2013</b> <ul style="list-style-type: none"> <li>- Received \$2,500 grant to conduct immersion research and interviews under supervision of Dr. Christopher Frey on student-led cultural immersion trips to Navajo Reservation</li> </ul>
<b>National Council for Undergraduate Research</b>	<b>Poster Presenter   Spokane, WA   Jan 2013-Apr 2013</b> <ul style="list-style-type: none"> <li>- Selected among 3,500 applicants nationwide for outstanding research on “Faulty Assumptions About the Targets of Development Aid Create Poverty Pornography” to present at the National Council for Undergraduate Research Conference</li> </ul>

## Teaching Experience

<b>Critical Philosophy, Dr. Neil Browne</b>	<b>Teaching Assistant Bowling Green, OH   Jul 2012-May 2015</b> <ul style="list-style-type: none"> <li>- Assisted Dr. Neil Browne, a distinguished teaching professor, on instruction of Honors courses “Intro to Critical Thinking” and “Critical Thinking about Great Ideas”</li> <li>- Reviewed students’ academic writing and application of course concepts during open office hours</li> <li>- Facilitated classroom discussions and research presentation materials using Prezi and Lexus and Nexus</li> </ul>
<b>Psychology, Dr. Craig Vickio</b>	<b>Peer Facilitator   Bowling Green, OH   Aug 2014-Dec 2014</b> <ul style="list-style-type: none"> <li>- Assisted Dr. Craig Vickio’s instruction of the Honors seminar “Finding Meaning in Life: An Exploration of Existential Issues” by preparing lecture presentations and notes.</li> <li>- Prepared and distributed supplemental course materials to guide student thinking</li> <li>- Planned and facilitated classroom discussions to augment Dr. Vickio’s semantic lectures</li> </ul>

## Leadership Experience

<b>Duke University Office of Scholars and Fellows – Karsh International Scholars</b>	<b>Graduate Student Scholarship Coordinator   Durham, NC   Jan 2017-May 2018</b> <ul style="list-style-type: none"> <li>- Participated in selection of student research fellows, their proposals, practice, and publication</li> <li>- Coordinated monthly first year scholar meetings to foster intellectual and community engagement</li> </ul>
<b>Delegate Keith Haynes Esq. (District 44a)</b>	<b>Development and Community Coordinator   Baltimore, MD   Sep 2015-Jul 2017</b> <ul style="list-style-type: none"> <li>- Coordinated district wide community events to promote unity, health, and well-being</li> <li>- Drafted correspondence to constituents</li> <li>- Researched issues for district constituents and made referrals for Delegate’s initiatives</li> <li>- Represented and attended neighborhood council meetings on behalf of Delegate Haynes</li> </ul>
<b>MDCCC AmeriCorps VISTA – University of Baltimore</b>	<b>Program Coordinator   Baltimore, MD   Jun 2015-Jul 2016</b> <ul style="list-style-type: none"> <li>- Developed mentoring skills and talent programming through outreach initiatives to provide growth opportunities for low-income and underprivileged youth</li> <li>- Through research and networking, created sustainable partnerships for growth of the mentoring program</li> <li>- Managed large-scale days of service and awareness weeks to explain reciprocal service based learning and active citizenship</li> </ul>