

Michelle Oraa Ali

Curriculum vitae

[illegible]

- *Research Assistant, Neuroscience & Behavior* 2014-15
 - Under supervision of **Dr Jared Schwartzer**
 - Investigated mice models of autism spectrum disorder with neuroimmunological and behavioral neuroscience techniques with a focus on maternal immune asthma using social approach tasks in BTBR and C57 mice.

University of Pennsylvania, Summer 2015
Undergraduate Research Fellow, Center for Cognitive Neuroscience

- Under supervision of **Dr Anjan Chatterjee**
- In collaboration with **Children’s Hospital of Pennsylvania** and **Center for Human Appearance**, conducted an independent research project on the social responses to facial appearance, specifically focusing on craniofacial disfigurement.
- Constructed corpus of images of patients who underwent reconstructive surgeries, experimental design via Qualtrics, data collection via Amazon Mechanical Turk and data visualization
 - Recipient of Harap Fund Grant for Independent Research

JOURNAL PUBLICATIONS Jamrozik, A.; **Oraa Ali, M.**; Sarwer, D. & Chatterjee, A.(2017). More than skin deep: Judgments of individuals with facial disfigurement. *Journal of Psychology of Aesthetics, Creativity and the Arts*.

Rubio-Fernandez, P.; Mollica, F.; **Oraa Ali, M.** & Gibson, E.A.(2018) How do you know that? Automatic belief inferences in passing conversation. *Submitted; in review*.

PUBLICATIONS IN PREPARATION **Oraa Ali, M.**; Fitzroy, A.B. & Breen, M.(2018) Prosody, Poetry and Processing: ERP Evidence for Rhythmic Structure in Silent Reading. *Manuscript in preparation*.

CONFERENCE TALKS Presenting Author Indicated with *

[1] **Oraa Ali, M.**, Fitzroy, A.B., & *Breen, M. Prosody, Poetry and Processing: ERP Evidence for Hierarchical Metrical Structure in Silent Reading. *15th International Conference on Music Perception and Cognition and 10th triennial conference of the European Society for the Cognitive Sciences of Music*. Montreal, Canada. 23-28 July 2018.

[2] **Oraa Ali, M.**, Fitzroy, A.B., & *Breen, M. Prosody, Poetry and Processing: ERP Evidence for Rhythmic Structure in Silent Reading. *31st CUNY Conference on Human Sentence Processing*, University of California, Davis, CA. 15-17 March 2018.

[3] ***Oraa Ali, M.**; McCune, C.; Sano, K. MuSyC: Music, Synaesthesia, Colour. *Art and Science symposium at the 24th Conference of the International Association of Empirical Aesthetics*. Universitat Wien, Vienna, Austria. 29 August - 1 September 2016.

CONFERENCE POSTERS [4] *Rubio-Fernandez, P.; ***Oraa Ali, M.**, & Gibson, E.A. Epistemic inferences in passing conversation: Pragmatics as a test of Theory of Mind accounts. *31st CUNY Sentence Processing Conference*. University of California, Davis, USA. 15-17 March 2018.

[5] ***Oraa Ali, M.**; Fitzroy, A.B. & Breen, M. Prosody, Poetry and Processing: ERP Evidence for Rhythmic Structure in Silent Reading. *11th Cornell Undergraduate Linguistics Colloquium*. Cornell University, Ithaca, NY. 29-30 April 2017. [*absent due to illness*]

- [6] ***Oraa Ali, M.**;Jamrozik, A.;Sarwer, D. & Chatterjee, A. Interpersonal judgments of individuals with facial disfigurement before & after treatment. *24th Conference of the International Association of Empirical Aesthetics*. Universitat Wien, Austria. 29 August - 1 September 2016.
– Recipient, **Robert Frances Award** and **Third Best Poster prize**.
- [7] ***Oraa Ali, M.** & Huston, S.J. Behavioral Effects of Single Visual Neuron Stimulation. *Janelia Research Symposium, Janelia Research Center*, Ashburn, VA. 3 August 2016.
- [8] ***Oraa Ali, M.**; Jamrozik, A.; Sarwer, D. & Chatterjee, A. Interpersonal judgments of individuals with facial disfigurement before and after treatment. *28th Annual Convention of the Association for Psychological Science*. Chicago, IL. 26-29 May 2016.
– Winner, **Building Bridges Poster Award**, National Institute of Dental & Craniofacial Research, National Institute of Health, USA.
- [9] ***Oraa Ali, M.**; Jamrozik, A.; Sarwer, D. & Chatterjee, A. Interpersonal judgments of individuals with facial disfigurement before and after treatment. *North-east Undergraduate Research on Neuroscience (NEURON)*. Quinnipiac University, CT, UAA. 28 February 2016.
- [10] *Nanda, P.;Emerson, F.;Schwartz, A.;**Oraa Ali, M.**; Steffens, E. & Schwartz J.J. Maternal Immune Activation & Social Cognition: A model for environment effects on the development of social behavioral deficits in autism spectrum disorders.*Northeast Undergraduate Research on Neuroscience (NEURON)*. Quinnipiac University, CT, USA. 22 February 2015.

DEMOS

- [11] ***Oraa Ali, M.** MuSyC: Music, Synaesthesia and Art. *4th Digital Humanities Symposium and Fellows Showcase*, Five College Digital Humanities, Amherst College, MA, USA. 6 May 2017.
- [12] ***Oraa Ali, M.** MuSyC: Music, Synaesthesia, Color. *Remixing Senses, Tech Expo, Hacking Arts Conference*, MIT Media Lab, Cambridge, MA, USA. 19 November 2016.
- [13] ***Oraa Ali, M.** MuSyC: Integrating Art and Science. *3rd Digital Humanities Symposium and Fellows Showcase*, Five College Digital Humanities, Amherst College, MA, USA. 30 April 2017.

AWARDS

- **Diversity Enhancement Award**, 43rd Boston University Conference on Language Development. 2018
- **Student Travel Award**, 31st CUNY Sentence Processing 2018
- **Finalist, Hacking Arts Hackathon**, MIT Media Lab 2016
- **Robert Frances Award (Outstanding Student Research Contribution)** 2016 International Association of Empirical Aesthetics, Vienna, Austria
- **NIDCR Building Bridges Travel Award**, National Institute of Health 2016
- **Student Caucus Travel Award**, Association of Psychological Science 2016

- **Most Interdisciplinary Project: MuSyC**, Hampshire Hackathon 2016
 - Across themes of Brain & Development, Artificial Intelligence, Life Hacks and Environment.

Mount Holyoke College, South Hadley, MA:

- **Sue Barry Award** 2017
 - Awarded to one graduating senior every year for demonstrating "*vision, joy and curiosity*" in the pursuit of research in science.
- **Phi Beta Kappa** 2017
- **Mary Lyon Scholar** 2017
- **Academic Excellence Award**, Neuroscience & Behavior 2017, 2016
- **President and Dean of College Fund** 2016

GRANTS AND FELLOWSHIPS

Five College Digital Humanities, Five College Consortium & The Andrew W. Mellon Foundation

- **Five College Digital Humanities Student Fellowship** 2016-17
- **Five College Digital Humanities Summer Student Fellowship** 2016
- **Five College Digital Humanities Microgrant** 2016

Mount Holyoke College

- **Harap Fund Grant for Independent Research** 2016, 2017, Feb & May 2018
 - For pursuit of independent research and travel (*four time recipient*).
- **21st Century Scholarship for Academic Excellence** 2013-17
- **MakerSpace Grant** Feb 2016, Oct 2016
 - For the development of MuSyC (*two time recipient*).
- **Laurel Fellowship** 2015-16
 - For pursuit of study in *Cognitive Neuroscience and Evolutionary Biopoetics* at the **University of Maastricht, The Netherlands** [*Declined due to pursuit of on-campus research opportunities*]
- **LYNK-UAF Grant - Pursuit of Scientific Research** 2015
 - For pursuit of independent research anywhere of one's choosing.

TEACHING

Mount Holyoke College, South Hadley, MA

- **Teaching Assistant, Visual Culture of Protest English, Africana Studies and Critical Social Thought** Spring 2017
 - Provided technical and research support for advanced seminar of 27 students.
 - Facilitated discussion about visual archives of protest and revolution from second half of the 20th century.
 - Responsible for curating content for course related social media and outreach.
- **Laboratory Teaching Assistant, Cell Biology Biological Sciences** Spring 2016
 - Taught scientific techniques such as epifluorescence microscopy, protein purification and polymer chain reaction to group of 50 students.
- **Teaching Assistant, Statistics for Psychology Psychology & Education** 2014-15
 - Taught fundamental statistical concepts and SPSS, and provided academic support to a class of 72 students.

| | |
|----------------------------|---|
| | <ul style="list-style-type: none"> • Tutor, Introduction to Neuroscience & Behavior 2014-15 Neuroscience & Behavior <ul style="list-style-type: none"> • Provided one on one tutoring for students in introductory neuroscience course. |
| SERVICE | <hr/> <p>Judge, Massachusetts State Science & Engineering Fair, MIT 2018</p> <ul style="list-style-type: none"> • Evaluated projects of high school students in the theme of Behavioral Science. <p>Student Liaison, Neuroscience & Behavior, Mount Holyoke College 2016-17</p> <ul style="list-style-type: none"> • Provided mentorship to peers about pursuing research in neuroscience, course planning and academic strategies. <p>Volunteer, CUNY Conference for Human Sentence Processing, Cambridge, MA 2017</p> <p>Student Resource, AccessAbility Services, Mount Holyoke College 2014-17</p> <ul style="list-style-type: none"> • Provided peer academic support for students in AccessAbility Services for several courses: Organic Chemistry, Research Methods in Psychology, Cognitive Psychology, Evolution and Neurobiology. <p>Zine Coordinator, OUTreach, Mount Holyoke College 2015-16</p> <ul style="list-style-type: none"> • Curated the 3rd annual Gender & Sexuality Zine "<i>What is Pride?</i>" [PDF] • Facilitated panel about experiences of queer international students at the first Mount Holyoke Queer Alum conference. • Helped organize events about intersectional feminism, activism and intergroup solidarity and provide support for LGBT students on campus. <p>Co-President, Neuroscience Student Forum, Mount Holyoke College 2015-16</p> <ul style="list-style-type: none"> • Helped student-led journal club to discuss different topics in neuroscience. • Curated a collaborative neuroscience related art exhibition for Brain Awareness week entitled: "<i>Synapse: Bridging the Gap Between Art and Science</i>". <p>Student Volunteer, Association for Psychological Science, Chicago, IL 2016</p> <p>Volunteer Presenter, The Franklin Institute, Philadelphia, PA 2015</p> <ul style="list-style-type: none"> • Showcased eye tracker technology in the perception of visual art at <i>Science After Hours</i> event in "ART + SCIENCE". |
| NON-ACADEMIC POSITIONS | <hr/> <p>Archives & Special Collections, Mount Holyoke College, USA 2015-17</p> <p><i>Student Archivist</i></p> <ul style="list-style-type: none"> • Curated an exhibition for the 40th anniversary of LGBTQ college organizations and in honor of the "The Astronomer". • Catalogued the feminist zine collection followed by digital data visualization. <p>Science & Technology, Deccan Chronicle, India 2011-13</p> <p><i>Journalist</i></p> <ul style="list-style-type: none"> • Wrote articles about the representation of women, LGBTQ and disabled individuals for a weekly segment for a national newspaper. <p>Freelance Illustrator 2006-Present</p> <ul style="list-style-type: none"> • Illustrated literary journals, designed covers for programs & magazines, created logos for organizations and fundraising events. |
| OTHER INDEPENDENT PROJECTS | <hr/> <p>Radio DJ and Sound Engineer 2014-Present</p> <ul style="list-style-type: none"> • <i>DJ and Engineer</i> for 4 seasons on WMBR 88.1 FM, Massachusetts Institute of Technology, Cambridge, MA <ul style="list-style-type: none"> - Show Name: Colourless Green Ideas Sleep Furiously • <i>DJ</i> for 7 seasons on WMHC 91.5 FM, Mount Holyoke College, South Hadley, MA <ul style="list-style-type: none"> - Show Names: Darling Mermaid Darlings, Swag Hags, The Cinnamon Nuns <p>MuSyC: Music, Synaesthesia, Color 2016-Present</p> <ul style="list-style-type: none"> • Used electrical engineering, signal processing, fabrication, data visualization, rapid prototyping and design to create a device which simulates chromesthetic synaesthesia. |

- Currently developing a real-time music visualizer for the WMBR (MIT Radio) website. [\[Link to Current Beta version\]](#)

SKILLS

Programming:

- Most Experience with **R**, **JavaScript**, **HTML**, **CSS**
- Basic Experience with **Python**, **UNIX**, **EPrime**, **Arduino**, **MATLAB**, **L^AT_EX**

Software and Platforms:

- **Amazon Mechanical Turk**, **PsiTurk**, IbexFarms, GEPHI, **Praat**, SPSS, Adobe Photoshop and Illustrator, StoryMap^{JS}, Qualtrics, Mesquite, ImageJ⁺⁺, FIJI, Ethovision, AutoCAD

Neuroscience:

- 3 years of experience with Event-related potential(*ERP*) -BioSemi ActiView system
- Basic experience with *eye-tracking*, functional magnetic resonance imaging (*fMRI*) corpus construction, rodent behavioral testing and stereotaxic surgery, optogenetics.

Other:

- Proficient at Drone piloting, surveillance
- Proficient at illustration and graphic design (digital and traditional media)
- Basic experience with sound engineering and radio broadcast engineering
- Basic experience with fabrication (3D printing and laser cutting)

ART SHOWS

Solo Shows

- | | |
|--|------|
| [1] Experimental Art Gallery, India Habitat Centre, New Delhi, India | 2016 |
| - Title: " <i>Curiouser & Curiouser: An Experimental Exhibition about Paintbrushes & Petridishes</i> " | |
| [2] Blanchard Student Art Gallery, South Hadley, MA, USA | 2016 |
| - Title: " <i>Curiouser & Curiouser: Integrating Art and Science</i> " | |
| [3] Convention Centre, India Habitat Centre, New Delhi, India | 2007 |
| - Title: " <i>More Than Meets The Eye</i> " | |

Group Shows

- | | |
|---|------|
| [4] Blanchard Student Art Gallery, South Hadley, MA, USA | 2016 |
| - Title: " <i>Synapse: Bridging the Gap Between Art and Science</i> " | |
| [5] Olympia Art Collective, South Hadley, MA, USA | 2016 |
| - Title: " <i>Olympia: Last Event</i> ". | |
| [6] Olympia Art Collective, Northampton, MA, USA | 2016 |
| - Title: " <i>Women Artists for Women Artists</i> ". | |
| [7] Olympia Art Collective, Mount Holyoke, South Hadley, MA, USA | 2016 |
| - Title: " <i>Presenting Olympia</i> ". Mount Holyoke Art Studio, South Hadley. | |
| [8] KRITI + Alliance Francaise de Delhi, New Delhi, India | 2011 |
| - Title: " <i>EcoFestival, Exhibition by Professional Artists</i> ". | |
| [9] Bienal Izmir, Izmir, Turkey | 2011 |
| - Title: " <i>1.International Izmir Modern Arts</i> " | |
| [10] Biennale Chianciano, Museo d'Arte, Chianciano Terme, Italy | 2009 |
| - Title: " <i>International Exhibition of Contemporary Arts</i> " | |
| [11] HelpAge India, The Oberoi, New Delhi, India | 2008 |
| - Title: " <i>Art for Aged</i> " | |