

Ryan M. Stolier

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EMPLOYMENT

2019 – Present Post-Doctoral Researcher
Columbia University, Advisor: Kevin Ochsner

EDUCATION

2014 – 2019 Ph.D., Social Psychology
New York University, Advisor: Jonathan Freeman

2013 – 2014 Ph.D. (transferred for continuation with advisor), Psychology
Dartmouth College, Advisor: Jonathan Freeman

2013 M.A., Social Psychology
San Diego State University, Advisor: Melody Sadler

2010 B.A., Arizona State University

AWARDS, FELLOWSHIPS, & GRANTS

2017 – 2019 National Institutes of Health – NIMH, NRSA, F31-MH114505. 'The neural basis of emotional state biases in facial emotion recognition'
Role: Fellow/PI

2019 NYU Douglas and Katharine Fryer Award for Best Doctoral Thesis

2019 Social and Affective Neuroscience Society Poster Award

2018 NYU Center for Brain Imaging Pilot Grant for project 'The neural representation of face trait space'

2018 NYU Katzell Summer Fellowship

2017 NYU GSAS Dean's Student Travel Grant award

2017 Society for Personality and Social Psychology Graduate Student Travel Award

2017 Social and Affective Neuroscience Society Innovation Award for 'Neural pattern similarity reveals the inherent intersection of social categories', *Nature Neuroscience* (2016)

2017 Social and Affective Neuroscience Society Poster Award

2016 NYU GSAS Dean's Student Travel Grant award

2015 NYU Center for Brain Imaging Pilot Grant for project 'Stereotype Overlap in Social Category Representation'

2014 NYU Center for Brain Imaging Pilot Grant for project 'The Neural Basis of Contextual Impacts on Emotion Perception'

PUBLICATIONS

- Brooks, J. A., **Stolier, R. M.**, & Freeman, J. B. (in press). Computational approaches to the neuroscience of social perception. *Social Cognitive and Affective Neuroscience*.
- Freeman, J. B., **Stolier, R. M.**, & Brooks, J. A. (2020). Dynamic Interactive theory as a domain-general account of social perception. In *Advances in Experimental Social Psychology* (Vol. 61, pp. 237-287). Academic Press.
- Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2020). Trait knowledge forms a common structure across social cognition. *Nature Human Behaviour*, 4, 361-371. [Preprint: <https://psyarxiv.com/5na8m>] [OSF: <https://osf.io/2uzsx/>]
- Hehman, E., **Stolier, R. M.**, Freeman, J. B., Flake, J., K., & Xie, S. (2018). Toward a comprehensive model of face impressions: What we know, what we don't, and paths forward. *Social and Personality Psychology Compass*, e12431.
- Freeman, J. B., **Stolier, R. M.**, Brooks, J. A., & Stillerman, B. A. (2018). The neural representational geometry of social perception. *Current Opinion in Psychology*, 24, 83-91.
- Brooks, J. A., **Stolier, R. M.**, & Freeman, J. B. (2018). Stereotypes bias visual prototypes for sex and emotion categories. *Social Cognition*, 36(5), 481-493.
- Stolier, R. M.**, Hehman, E., Keller, M. D., Walker, M., & Freeman, J. B. (2018). The conceptual structure of face impressions. *Proceedings of the National Academy of Sciences of the United States of America*, 115(37) 9210-9215. [Preprint: <https://psyarxiv.com/d9ha7>] [OSF: <https://osf.io/z23kf/>]
- Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2018). A dynamic structure of social trait space. *Trends in Cognitive Sciences*, 22(3), 197-200.
- Stolier, R. M.**, & Freeman, J. B. (2017). A neural mechanism of social categorization. *Journal of Neuroscience*, 37(23), 5711-5721.
- Lazerus, T., Ingbreetsen, Z., **Stolier, R. M.**, Freeman, J. B., & Cikara, M. (2016). Positivity Bias in Judging In-group Members' Emotional Expressions. *Emotion*, 16(8), 1117.
- Stolier, R. M.**, & Freeman, J. B. (2016). Functional and Temporal Considerations for Top-Down Influences in Social Perception. *Psychological Inquiry*, 27(4), 352-357.
- Stolier, R. M.**, & Freeman, J. B. (2016). Neural pattern similarity reveals the inherent intersection of social categories. *Nature Neuroscience*, 19(6), 795-797.
- Stolier, R. M.**, & Freeman, J. B. (2016). The neuroscience of social vision. Invited chapter for J. R. Absher & J. Cloutier (Eds.), *Neuroimaging Personality, Social Cognition, and Character*. Elsevier.
- Hehman, E., **Stolier, R. M.**, & Freeman, J. B. (2015). Advanced mouse-tracking analytic techniques for enhancing psychological science. *Group Processes and Intergroup Relations*, 18(3), 384-401.
- Freeman, J. B., & **Stolier, R. M.** (2014). The medial prefrontal cortex in constructing personality models. *Trends in Cognitive Sciences*, 18(11), 571-572.

Freeman, J. B., **Stolier, R. M.**, Ingbreetsen, Z. A., & Hehman, E. (2014). Amygdala responsivity to high-level social information from unseen faces. *Journal of Neuroscience*, 34(32), 10573-10581.

UNPUBLISHED MANUSCRIPTS

Jones, B., DeBruine, L., Flake, J., ... **Stolier, R. M.**, ... Coles, N. A. (accepted in principle). To Which World Regions Does the Valence-Dominance Model of Social Perception Apply?. *Nature Human Behaviour*. [Preprint: <https://psyarxiv.com/n26dy>] [OSF: <https://osf.io/yrveh/>]

Stolier, R. M., Bin Meshar, M., & Freeman, J. B. (in prep). Stereotypes of ambiguous groups give way to trait appearance-based categorizations of faces from occupation to political affiliation.

Xie, S. Y., Flake, J. K., **Stolier, R. M.**, Freeman, J. B., Hehman, E. (under review). A variant impression formation space across social categories.

CHAired SYMPOSIA

Stolier, R. M. & Hehman, E. (2020, February). *The new face of face-impressions: how social factors structure perceptions*. Society for Personality and Social Psychology, New Orleans, LA.

CONFERENCE TALKS

Stolier, R. M. Hehman, E. Keller, M. D., Walker, M., & Freeman, J. B. (2020, February). *The conceptual foundation of face-based trait impressions*. Talk to be given as part of the symposium "The new face of face-impressions: how social factors structure perceptions" at the annual meeting of the Society for Personality and Social Psychology, New Orleans, LA.

Stolier, R. M., Hehman, E., & Freeman, J. B. (2020, February). *Conceptual associations guide trait inference: from face impressions to stereotypes*. Data blitz to be given at the Social Cognition preconference to the annual meeting of the Society for Personality and Social Psychology, New Orleans, LA.

Stolier, R. M. & Freeman, J. B. (2019, May). *Face-based group categorizations as a function of stereotypes and low-level trait impressions*. Talk given at the annual meeting of the Association for Psychological Science, Washington, D. C.

Brooks, J. A., Chikazoe, J., **Stolier, R. M.**, Sadato, N., Bin Meshar, M., & Freeman, J. B. (2019, March). *Top-down influences on the neural representation of facial emotion perception*. Talk to be given at the annual meeting of the Society for Affective Science, Boston, MA.

Stolier, R. M., Cogoni, C., Silani, G., & Freeman, J. B. (2018, April). *Perceptual dehumanization: objectified females are represented as more inanimate and less animate in the ventral visual stream*. Talk given at the annual meeting of the New York Social and Affective Neuroscience Group, New York, NY.

Brooks, J. A., **Stolier, R. M.**, & Freeman, J. B. (2018, March). *Social-conceptual knowledge shapes visual perception of gender and emotion*. Talk given at the annual meeting of the Society for Personality and Social Psychology, Atlanta, GA.

- Freeman, J. B., & **Stolier, R. M.** (2017, April). *Neural mechanisms of stereotypic vision*. Talk given at the 2017 annual meeting of the Social and Affective Neuroscience Society, Los Angeles, LA.
- Stolier, R. M.**, & Freeman, J. B. (2017, January). *Hidden category activations en route to social perception*. As part of the symposium “Decoding social categories, person knowledge & social networks from brain activity” at the annual meeting of the Society for Personality and Social Psychology, San Antonio, TX.
- Stolier, R. M.** (2016, October). *Stereotypes Bias the Similarity of Social Category Representations*. Talk given at the annual meeting of the New York Social and Affective Neuroscience Group, New York, NY.
- Freeman, J. B., Pauker, K., Sanchez, D. T., & **Stolier, R. M.** (2016, January). *A perceptual pathway to bias: Interracial exposure reduces abrupt shifts in real-time race perception that predict mixed-race bias*. As part of the symposium “New directions in intergroup contact: Behavioral and neuroscientific investigations of attention, categorization, evaluation, and learning” at the annual meeting for the Society for Personality and Social Psychology, San Diego, CA.
- Stolier, R. M.**, & Freeman, J. B. (2015, September). *Synchronized fMRI and mouse-tracking reveal the co-activation of multiple social categories*. Data blitz given at the annual meeting of the New York Social and Affective Neuroscience Group, New York, NY.
- Freeman, J. B., **Stolier, R. M.**, Pauker, K., & Sanchez, D. T. (2015, September). *Visual Bias: The Dynamic Representation of Race*. As part of the symposium “Race perception: From basic social cognitive processes to prejudice intervention” at the annual meeting of the Society for Experimental Social Psychology, Denver, CO.
- Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2015, May). *Risk-averse perception: group membership alters the fundamental dimensions underlying face-trait evaluation*. As part of the graduate student data blitz at the Four College Conference annual meeting, New York, NY.
- Freeman, J. B. & **Stolier, R. M.** (2015, May). *Visual Bias: The Dynamic Neural Representation of Race*. As part of the “Prejudice on the brain: Individual differences and social context affect the neural representation of race” symposium at the annual meeting of the Association for Psychological Science, New York, NY.

INVITED TALKS

- 2020, Apr. – Yale University, Department of Psychology, *Fundamentals of the Adolescent Brain Lab*
- 2020, Feb. – University of Delaware, Department of Psychology, *Social Psychology Brown Bag*
- 2020, Feb. – New York University, Department of Psychology, *West Interpersonal Perception Lab*
- 2017, Oct. – Columbia University, Department of Psychology, *Social Cognitive & Affective Neuroscience Lab*
- 2016, Nov. – Princeton University, Department of Psychology, *Neuroscience and Social Decision Making Talk Series*

POSTER PRESENTATIONS

- Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2019). *Trait space as a conceptual map that guides social perception*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Miami, FL.

- Stolier, R. M.**, Hehman, E., Keller, M. D., Walker, M., & Freeman, J. B. (2019). *Lay Beliefs about Personality Shape Impressions from Faces to Stereotypes*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Portland, OR.
- Stolier R. M.** & Freeman, J. B. (2018). *The co-activation and competition of social categories*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Brooklyn, NY.
- Stolier R. M.**, Hehman, E., & Freeman, J. B. (2018). *Conceptual trait associations shape face evaluation*. Poster presented at the CCD International Workshop on Person Perception. Perth, Australia.
- Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2018). *Group Membership Shapes Trait Judgment Space of Faces*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Atlanta, GA.
- Stillerman, B., **Stolier, R. M.**, Amodio, D., & Freeman, J. B. (2018). *Exploring the conceptual and visual bases of weapon bias*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Atlanta, GA.
- Conrad, C., **Stolier, R. M.**, Hehman, E., & Freeman, J. B. (2018). *Benevolent Sexism Entangles the Perceived Dimensions of Trust and Dominance towards Female Faces*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Atlanta, GA.
- Stolier, R. M.**, & Freeman, J. B. (2017). *Automatic stereotype activation in the anterior temporal lobe*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Los Angeles, CA.
- Stillerman, B., **Stolier, R. M.**, Amodio, D. M., & Freeman, J. B. (2017). *Exploring the conceptual and visual bases of weapons bias*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Los Angeles, CA.
- Stillerman, B., **Stolier, R. M.**, & Freeman, J. B. (2017). *Competition in face categorization reflects goal-relevant ambiguity*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. San Antonio, TX.
- Brooks, J. A., **Stolier, R. M.**, & Freeman, J. B. (2017). *Intersecting stereotypes bias visual prototypes for sex and emotion categories*. Poster presented at the Emotion pre-conference of the Society for Personality and Social Psychology. San Antonio, TX.
- Stolier, R. M.**, & Freeman, J. B. (2016). *Visual bias: Stereotypes alter the neural representation of race*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. San Diego, CA.
- Xie, Y., **Stolier, R. M.**, & Freeman, J. B. (2015). *Intergroup threat alters the underlying dimensions of face-trait evaluation*. Poster presented at the annual Hunter College Psychology Convention. New York, NY.
- Stolier, R. M.** & Freeman, J. B. (2015). *Synchronized fMRI and motion-tracking reveals the co-activation of multiple social categories*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Boston, MA.
- Stolier, R. M.** & Freeman, J. B. (2015). *Motivated to confirm: Stereotypes of unambiguous social categories resolve ambiguity in others*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Long Beach, CA.
- Stolier, R. M.** & Freeman, J. B. (2014). *The inherent intersection of social categories*. Poster presented at the Multi-Disciplinary Perspectives on Person Perception workshop at Dartmouth College. Hanover, NH.
- Stolier, R. M.**, Hehman, E. A., Ingbreetsen, Z. A., & Freeman, J. B. (2014). *The amygdala's role in processing the trustworthiness of unseen faces*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society. Denver, CO.

- Stolier, R. M.**, Jones, J. L., & Sadler, M. (2014). *Where dehumanization facilitates empathy: Increased empathic embarrassment towards those attributed less executive function*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Austin, TX.
- Jones, J. L., **Stolier, R. M.**, Kaye, K., Sadler, M. (2014). *The Roles of Competence and Warmth in Approach-avoidance Processing and Decision-making*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. Austin, TX.
- Stolier, R. M.**, Stewart, W., Kaye, K. E., & Sadler, M. (2013). *Implicit Indices of Explicit Stigma: Approach-Avoidance and Social Distance from Individuals with Schizophrenia*. Poster presented at the annual meeting of the Society for Personality and Social Psychology. New Orleans, LA.
- Stolier, R. M.**, Bates, R., & Sadler, M. (2012). *The Mediation Role of Competence and Warmth in Judgments of Different Mental Illnesses*. Poster presented at the annual meeting of the Western Psychological Association. San Francisco, CA.
- Stolier, R. M.** & Lewis, L. B. (2012). *The Moderational Role of Semantic Memory in the Relationship Between Religiousness and Conservative Attitudes*. Poster presented at the annual meeting of the Western Psychological Association. San Francisco, CA.

TEACHING EXPERIENCE

2018	Invited course lecture – Graduate Research Methods, New York University
2017	Invited course lecture – Introduction to Social Psychology, New York University
2016	Invited course lecture – Methods in Social Psychology, New York University
2016	Invited workshop instructor – Data reduction and visualization in R, New York University
2016	Invited workshop instructor – Fundamentals in programming and automation in R, New York University
2015	Invited course lecture – Methods in Social Neuroscience, New York University
2014	Invited seminar instructor – Motion-tracking experimental design and data analysis, The Motivation Lab, New York University
2012 – 2013	Seminar instructor – Programming for Psychological Research, San Diego State University
2012 – 2013	Teaching Assistant – Statistical Methods in Psychology, San Diego State University
2009 – 2010	Teaching Assistant – Sociology of Adolescence, Arizona State University

RESEARCH ADVISING EXPERIENCE

Academic status of past trainees	Ruiyi Chen – PhD student, Cornell University John Andrew Chwe – PhD student, New York University Maryam Bin Meshar – PhD student, New York University Azaadeh Goharзад – PhD student, University of Delaware Anton Gollwitzer – PhD student, Yale University Zahra Kadhkhodaie – MA student, New York University
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	Ying Xie – PhD student, Cornell University
Masters Theses	Carlina Conrad (2016), Daniel Mocombe (2016), Zahra Kadhkhodaie (2015), Maryam Bin Meshar (2018)
Undergraduate Honors Theses	John Andrew Chwe (2017), Deshana Barua (2017), Anton Gollwitzer (2015), Jay Dumanian (2014), Michael McGlenn (2013)
Student Awards	John Andrew Chwe (Doris Aaronson Award; Dean's Undergraduate Research Fund Award, 2017), Deshana Barua (Dean's Undergraduate Research Fund Award, 2017), Rick Melucci (Intel Science Talent Search, 2016), Eun Myoung-Lee (Presidential Scholar, 2014), Jemin Park (Presidential Scholar, 2014)

DEPARTMENT SERVICE

2014 – 2015	Organizer of the fMRI Workshop series - Center for Brain Imaging, New York University
2011 – 2013	Participant pool manager, San Diego State University

PROFESSIONAL ACTIVITIES

2017	Computational Summer School in Methods in Neuroscience at Dartmouth (MIND), Dartmouth College
2017	Summer School in Social Neuroscience & Neuroeconomics, Duke University
2013 – Present	The Social & Affective Neuroscience Society
2013 – Present	Society for Personality and Social Psychology

AD-HOC REVIEWING

Funding agencies	<i>Israel Science Foundation</i> <i>National Science Foundation</i>
Journals	<i>Cerebral Cortex</i> <i>Cognitive, Affective, & Behavioral Neuroscience</i> <i>Emotion</i> <i>Frontiers in Psychology</i> <i>Journal of Experimental Social Psychology</i> <i>Journal of Neuroscience</i> <i>Journal of Personality and Social Psychology</i> <i>Neuropsychologia</i> <i>Perception</i> <i>Personality and Social Psychology Bulletin</i> <i>PLOS One</i> <i>Psychonomic Bulletin & Review</i> <i>Social Cognition</i> <i>Social Neuroscience</i> <i>Social Psychological & Personality Science</i> <i>WIREs Cognitive Science</i>