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EDUCATION & TRAINING

2018–present	**Postdoctoral Fellow** Department of Psychology, Yale University, New Haven CT
2012–2018	**Ph.D.**, Cognitive Neuroscience Dartmouth College, Hanover NH
2007–2010	**B.S.,** Psychology: Neuroscience concentration Pennsylvania State University, University Park PA *Summa cum laude*, GPA: 3.96

AWARDS & FELLOWSHIPS

2019	**Travel Awardee**, Flux Congress
2018	**Awardee**, William M Smith Promise Award
2018	**Department Nominee**, Hannah Croasdale Award
2016	**Fellow,** NSF Graduate Research Opportunities Worldwide (GROW) fellowship
2015	**Poster Award**, Dartmouth Integrative Biology Symposium
2015	**Teaching Award**, Outstanding Graduate Student TA, Dartmouth College
2014	**Presentation Award**, Social Cognitive Neuroscience summer school, SISSA, Italy
2014 – 2017	**Fellow**, National Science Foundation Graduate Research Fellowship
2014	**Teaching Award**, Outstanding Graduate Student TA, Dartmouth College
2013	**Honorable mention**, National Science Foundation Graduate Research Fellowship
2010 – 2012	**Fellow,** Intramural Research Training Award (IRTA), National Institutes of Health
2010	**Highest Distinction** (top 2%), Penn State University
2007 – 2010	**Dean's List**, Penn State University
2009 – 2010	**Member**, Psi Chi National Psychology Honor Society, Penn State University

RESEARCH POSITIONS

May 2018 – present	**Yale University**, New Haven CT Postdoctoral researcher *Mentor*: Prof. BJ Casey
2012 – 2018	**Dartmouth College**, Hanover NH Pre-doctoral researcher *Mentor*: Prof. Luke Chang Previous mentors: Former Profs. William Kelley, Todd Heatherton
2016	**University of Oxford & Aarhus University**, Oxford UK & Aarhus DK NSF Graduate Opportunities Worldwide (GROW) fellow *Mentor*: Prof. Morten Kringelbach
2010 – 2012	**National Institute of Mental Health**, NIH, Bethesda MD Intramural Research Fellow *Mentors*: Drs. Alex Martin, Kyle Simmons
Summer 2009	**West Virginia University**, Morgantown WV Summer Undergraduate Research Intern *Mentor*: Prof. James Lewis
2008 – 2010	**The Pennsylvania State University**, University Park PA Undergraduate research assistant *Mentors*: Profs. William Ray, Peter Arnett, Teresa Vescio

PUBLICATIONS

Published & in press manuscripts

Courtney, A.L., Casey, B.J., **Rapuano, K.M.** (In press). A neurobiological model assessing alcohol marketing effects on underage drinking. *Journal of Studies on Alcohol and Drugs*.

Masterson, T., Bobak, C., **Rapuano, K.M.**, Shearrer, G., & Gilbert-Diamond, D. (2019). Association between regional brain volumes and BMI z-score change over one year in children. *PLOS One 14*(9): e0221995.

Figueroa, C.A., Cabral, J, Mocking, R.J.T., **Rapuano, K.M.**, van Hartevelt, T., Schene, A.H., Kringelbach, M.L., Ruhé, H.G. (2019). Altered ability to access a clinically relevant control network in patients remitted from major depressive disorder. *Human Brain Mapping, 40*(9), 2771-2786.

Stevner, A.B.A., Vidaurre, D., Cabral, J., **Rapuano, K.M.,** Nielsen, S.F.V., Tagliazucchi E., Laufs H., Deco G., Woolrich M.W., Van Someren E., Kringelbach M. L. (2019).

Discovery of key whole-brain transitions and dynamics during human wakefulness and non-REM sleep. *Nature Communications 10*(1), 1035.

Lord, L.D., Expert, P., Atasoy, S., Roseman, L., **Rapuano, K.M.**, Lambiotte, R., Nutt, D.J., Deco, G., Carhart-Harris, R.L, Kringelbach, M.L., Cabral, J. (2018). Dynamical exploration of the repertoire of brain networks at rest is modulated by psilocybin. *NeuroImage*, 199, 127-142.

Courtney, A.L., PeConga, E., Wagner, D.D., **Rapuano, K.M.** (2018). Calorie information and dieting status modulate reward and control activation in response to food images. *PLOS One, 13*(11), e0204744.

Courtney, A.L., **Rapuano, K.M.**, Sargent, J.D., Heatherton, T.F., Kelley, W.M. (2018). Brain Reward Responses Are Behaviorally Relevant. *Journal of Studies on Alcohol and Drugs, 79*(1), 41-42.

Courtney, A.L., **Rapuano, K.M.**, Sargent, J.D., Heatherton, T.F., Kelley, W.M. (2018). Reward system activation in response to alcohol advertisements predicts underage drinking. *Journal of Studies on Alcohol and Drug,s 79*(1), 29-38.

Rapuano, K.M., Zieselman, A.L., Kelley, W.M., Sargent, J.D., Heatherton, T.F., Gilbert-Diamond, D. (2016). Genetic risk for obesity predicts nucleus accumbens size and responsivity to real-world food cues. *Proceedings of the National Academy of Science,s 114*(1), 160-165.

Gilbert-Diamond, D., Emond J., Lansigan R, **Rapuano, K.M.**, Kelley, W.M., Heatherton, T.F., Sargent J.D. (2016). Television food advertisement exposure and FTO genotype in relation to excess consumption in children. *International Journal of Obesity, 41(*1), 23-29.

Kringelbach, ML. & **Rapuano, K.M.** (2016) Time in the orbitofrontal cortex. *Brain, 139*(4): 1010-1013.

Rapuano, K.M., Huckins, J.F., Sargent, J.D., Heatherton, T.F., Kelley, W.M. (2015). Individual Differences in Reward and Somatosensory-Motor Brain Regions Correlate with Adiposity in Adolescents. *Cerebral Cortex, 26*(6), 2602-2611.

Simmons, W.K., **Rapuano, K.M.**, Kallman, S.J., Ingeholm, J.E., Miller, B., Gotts, S.J., Hall, K.D., Martin, A. (2014). Category-specific integration of homeostatic signals in caudal, but not rostral, human insula. *Nature neuroscience, 16*(11), 1551-1552.

Simmons, W.K., **Rapuano, K.M.**, Ingeholm, J.E., Avery, J., Kallman, S.J., Hall, K.D., Martin, A. (2013). The ventral pallidum and orbitofrontal cortex support food pleasantness inferences. *Brain Structure & Function, 219*(2), 473-83.

Talkington, W.J., **Rapuano, K.M.**, Hitt, L., Frum, C.A., Lewis, J.W. (2012). Humans mimicking animals: A cortical hierarchy for human vocal communication sounds. *The*

Journal of Neuroscience, 32(23):8084-8093.

Lewis, J.W., Frum, C.A., Brefczynski-Lewis, J.A., Talkington, W.J., Walker, N.A., **Rapuano, K.M.**, Kovach, A.L. (2011). Cortical network differences in the sighted versus early blind for recognition of human-produced action sound. *Human Brain Mapping, 32*(12), 2241-2255.

Preprints under review

Chang, L.J., Jolly, E., Cheong, J.H., **Rapuano, K.M.**, Greenstein, N., Chen, P.H.A., Manning, J.R. Endogenous variation in ventromedial prefrontal cortex state dynamics during naturalistic viewing reflects affective experience. *bioRxiv*, 487892.

Rosenberg, M.D., Martinez, S.A., **Rapuano, K.M.**, Conley, M.I., Cohen, A.O., Cornejo, M.D., Hagler, D.J., Anderson, K.M., Wager, T.D., Feczko, E. and Earl, E. Fair, D.A., Barch, D.M., Watts, R., Casey, B.J. (2019). Behavioral and neural signatures of working memory in childhood. *bioRxiv*, 659409.

Manuscripts in preparation

Rapuano, K.M., Rosenberg, M.D., Maza San Vicente, M.T., Greene, A., Horien, C., Scheinost, D., Constable, R.T., Casey, B.J. Connectome-based prediction of risk for future substance use in youth.

Rapuano, K.M., Tejavibulya, L., Mayer, L., Casey, B.J. Genetic risk for obesity influences behavioral and neural responses during a food-specific go/no-go task.

Rapuano, K.M., Courtney, A.L., Sargent, J.D., Chang, L.J. Real-world goal-relevance organizes neural responses to naturalistic alcohol cues.

Rapuano, K.M., Courtney, A.L., Sargent, J.D., Chang, L.J. Idiosyncratic brand preferences modify neural responses to advertisements.

Chapters

Ashburn, S., Abugaber, D., Antony, J., Bennion, K., Bridwell, D., Cardenas-Iniguez, C., Doss, M., Fernández, L., Huijsmans, I., Krisst, L., Lapate, R., Layher, E., Leong, J., Li, Y., Marquez, F., Munoz-Rubke, F., Musz, L., Patterson, T., Powers, J., Proklova, D., **Rapuano, K.M.**, Robinson, S., Ross, J., Samaha, J., Sazma, M., Stewart, A., Stickel, A., Stolk, A., Vilgis, V., Zirnstein, M. (in press). Towards a socially responsible, transparent, and reproducible cognitive neuroscience. In D. Poeppel, M. Gazzaniga, & R. Mangun, The Cognitive Neurosciences VI. Cambridge, MA: MIT Press.

INVITED TALKS

Feb 2020 Yale University, McPartland Lab science meeting
Jan 2020 Yale University, Appetitive neuroimaging seminar series
Sep 2019 University of Connecticut, Psychology research seminar series
Mar 2019 Yale University, Magnetic Resonance Research Center seminar series
Nov 2017 Yale University, Fundamentals of the Adolescent Brain lab meeting
Nov 2015 Dartmouth Hitchcock Medical Center, Cancer Control seminar series
Dec 2014 Dartmouth College, Cancer Control Center Walter Willet meeting
Feb 2014 Dartmouth Hitchcock Medical Center, Neuroscience Day
Jan 2014 Dartmouth College, Guardians Social Area Seminar Series
Sep 2013 Dartmouth College, Social Brain Sciences Brown Bag
Oct 2011 NIMH/NIH, Laboratory of Brain and Cognition Meeting
Aug 2009 West Virginia University, Center for Advanced Imaging seminar series

CONFERENCE PRESENTATIONS

Talks

"Predicting vulnerability to health-risk behaviors in youth." Flux Congress, New York NY. August 2019. *(travel awardee)*

"Structural morphometry and connectivity in the human reward system predicts obesity metrics." Society for Neuroscience, Chicago IL. October 2015.

"Humans mimicking animals: Implications for species-specific vocalization processing in human cortex." Columbia University Undergraduate Science Symposium, New York NY, May 2010.

Posters

Rapuano, K.M., Rosenberg, M.D., Maza San Vicente, M.T., Greene, A., Horien, C., Scheinost, D., Constable, R.T., Casey, B.J. Behavioral and neural predictors of vulnerability for risky behaviors in childhood. *Society for Neuroscience*, Chicago IL. October 2019.

Rapuano, K.M., Rosenberg, M.D., Greene, A., Horien, C., Scheinost, D., Constable, R.T., Casey, B.J. Predicting vulnerability to health-risk behaviors in youth. *Flux Congress,* New York NY. August 2019. (travel awardee)

Rapuano, K.M., Rosenberg, M.D., Watts, R., Casey, B.J. Characterizing the emergence of circuitry underlying cognitive control and reward motivation in youth. *Organization for Human Brain Mapping*, Rome, Italy. June 2019.

Rapuano, K.M., Courtney, A.L., Sargent, J.D., Chang, L.J. Real world goal-relevance organizes neural responses to naturalistic alcohol cues. *Social & Affective Neuroscience society annual meeting*, Miami, FL. May 2019.

Rapuano, K.M., Courtney, A.L., Nastase, S.A., Sargent, J.D., Heatherton, T.F., Chang, L.J. Neural responses to naturalistic alcohol cues differ by real-world contextual relevance. *Organization for Human Brain Mapping*, Singapore. June 2018.

Rapuano, K.M., Heatherton, T.F., Kelley, W.M. Sex-differences in orbitofrontal cortex representation during evaluations of facial attractiveness. *Social & Affective Neuroscience Society annual meeting*, Los Angeles, CA. March 2017.

Rapuano, K.M., Heatherton, T.F., Kelley, W.M. Males and females evaluate facial attractiveness using different cognitive and affective strategies. *Society for Neuroscience annual meeting*, San Diego, CA. November 2016.

Rapuano, K.M., Chavez, R.S., Decker, M.E., Gilbert-Diamond, D., Sargent, J.D., Heatherton, T.F., Kelley, W.M. Structural morphometry and connectivity in the human reward system predict obesity metrics. *The Obesity Society annual meeting*, New Orleans, LA. November 2016.

Rapuano, K.M., Zieselman, A.L., Kelley, W.M., Sargent, J.D., Heatherton, T.F., Gilbert-Diamond, D. Genetic risk for obesity enhances reward responsivity to real-world food cues in children. *Social & Affective Neuroscience Society annual meeting*, New York, NY. April 2016.

Rapuano, K.M., Chavez, R.S., Gilbert-Diamond, D., Heatherton, T.F., Kelley, W.M. Structural morphometry and connectivity in the human reward system predict obesity metrics. *Dartmouth Integrative Biology Symposium*, Hanover NH. April 2015. (***poster award***)

Rapuano, K.M., Courtney, A.L., Sargent, J.D., Heatherton, T.F., Kelley, W.M. Brand preference and percent body fat modulate neural responses to food advertisements. *Cognitive Neuroscience Society annual meeting*, San Francisco CA. March 2015.

Rapuano, K.M., Courtney, A.L., Sargent, J.D., Heatherton, T.F., Kelley, W.M. Brand preference and percent body fat modulate neural responses to food advertisements. *Obesity Society annual meeting*, Boston MA. November 2014.

Rapuano, K.M., Huckins, J.F., Rogers, C., Sargent, J.D., Heatherton, T.F., Kelley, W.M. Fast food commercials differentially engage sensorimotor and insular cortices in overweight and normal weight adolescents. *Society for Neuroscience*, San Diego CA. November 2013.

Rapuano, K.M., Huckins, J.F., Sargent, J.D., Heatherton, T.F., Kelley, W.M. The influence of social context on neural responses to fast food advertisements. *Dartmouth*

Integrative Biology Symposium, Hanover NH. April 2013.

Rapuano, K.M., Simmons, W.K., Ingeholm, J.E., Knuth, N., Hall, K.D. Inferences about food pleasantness modulate activity in the ventral pallidum. *Cognitive Neuroscience Society*, Chicago IL. April 2012.

Rapuano, K.M., Simmons, W.K., Kallman, S.J, Ingeholm, J.E., Hall, K.D., Martin, A. Taste-localized gustatory cortex responds to viewing pictures of appetizing foods. *NIMH/DIRP Scientific Retreat*, Lancaster PA. May 2011.

Rapuano, K.M., Talkington, W.J., Frum, C.A., Lewis, J.W. Humans mimicking animals: Implications for species-specific vocalization processing in human cortex. *Penn State Psi Chi National Psychology Honor Society Symposium*, 2010.

Rapuano, K.M., Talkington, W.J., Frum, C.A., Lewis, J.W. Humans mimicking animals: Implications for species-specific vocalization processing in human cortex. *Columbia Undergraduate Science Journal Symposium,* May 2010.

TEACHING EXPERIENCE

2018 & 2019	Guest Lecturer, Yale University *Advertising to adolescents* BJ Casey's Adolescent Brain Development course
2014 & 2016	*Teaching Assistant, Dartmouth College *Principles of Human Brain Mapping with fMRI* (William Kelley) Guest lectures: Intro to multivariate pattern analysis (MVPA); Diffusion Tensor Imaging (DTI)
2014	Teaching Assistant/Lab Instructor, Dartmouth College Laboratory in Psychological Science (Jon Freeman)
2014	*Teaching Assistant, Dartmouth College *Emotion* (Paul Whalen) Guest lecture: Reward & Motivation
2008	Tutor, The Pennsylvania State University, University Park Biology: Basic Concepts and Biodiversity

MENTORSHIP EXPERIENCE

2019 – 2020	Mila Dorji (senior thesis)
2019	Link Tejavibulya (neuroscience graduate student)
2018 – 2019	Melanie Grad- Freilich (senior thesis)
2017	Sarah Egner (presidential scholar)
2016 – 2017	Ryan Hyon (honors student, awarded best poster)
2016 –2016	Serena Zhu (sophomore science scholar)
2015 – 2016	Emma PeConga (honors student, awarded best thesis/poster)
2015 – 2016	Kristina Mani (research assistant, Neukom scholar award)
2015 – 2016	Marissa Evans (research assistant)
2014 –2016	Mary Decker (presidential scholar, Neukom scholar award)
2014 – 2015	Amanda Zieselman (honors student, awarded best thesis)
2014 – 2015	Stephanie Ng (presidential scholar)
2013 – 2014	Maia Salholz-Hillel (presidential scholar)
2013	Emily Cambern (sophomore science scholar)

SCIENTIFIC CONTRIBUTIONS & SERVICE

2014 – present **Ad-hoc Reviewer**
PLOS One (4); Social Cognitive and Affective Neuroscience (3); Cerebral Cortex (3); Journal of Neuroscience (1); Obesity (1); Human Brain Mapping (1); NeuroImage (2); Journal of Pediatric Psychology (1); International Journal of Obesity (1); Brain Structure and Function (1); Journal of Neurophysiology (1)
Publons: https://publons.com/researcher/1561539/kristina-rapuano/

2014 – 2016 **Organizer**, Social Brain Sciences brown bag speaker series
Dartmouth Psychological & Brain Sciences department

2013 – 2015 **Leader**, Graduate Women in Science & Engineering (GWISE)
Dartmouth College Graduate student organization

SKILLS

Programming	Python, R, shell scripting (tcsh, bash)
Neuroimaging	AFNI, SPM, FSL, Freesurfer, PyMVPA
Presentation	PsychoPy, E-Prime

PROFESSIONAL AFFILIATIONS

Society for Neuroscience
Cognitive Neuroscience Society
Organization for Human Brain Mapping
Social & Affective Neuroscience Society
The Obesity Society
Flux Congress

Workshops & Hackathons Attended

2019	Organization for Human Brain Mapping hackathon
2018	Organization for Human Brain Mapping hackathon
2018	NeuroHackademy, Seattle WA
2018	Kavli Summer Institute in Cognitive Neuroscience, Lake Tahoe CA
2018	SheHacksBoston (world's largest all-female hackathon), Boston MA
2017	Methods in Neuroscience at Dartmouth (MIND), Hanover NH
2017	Kavli Summer Institute in Cognitive Neuroscience, Santa Barbara CA
2014	Social Cognitive Neuroscience Summer School, SISSA, Trieste Italy
2013	fMRI training course, University of Michigan, Ann Arbor MI

Graduate Coursework

Measurement & Statistics I
Measurement & Statistics II *(high pass)*
Computational Methods *(high pass)*
Programming for neuroscience
Brain Evolution *(high pass)*
Cognitive Neuroscience
Social Neuroscience
Medical Neuroscience
Great ideas in psychology

Community Involvement & Outreach

2020 — ABCD Yale Site STEM course, organizer
Yale University, New Haven, CT

2019 — Faculty & Staff Sexual Misconduct conference, workshop organizer
University of Wisconsin–Madison, Madison WI

Local outreach with children, young girls & women

2014 — The Family Place: GED program for young mothers, Norwich VT
2013 — Indian River Middle School, Canaan NH

2014 — "Science Pub" with community members, presenter
Dartmouth College, Hanover NH

2013–2015 — GWISE Science Day, organizer and activity leader
Dartmouth College, Hanover NH