

Olivia Choy

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ACADEMIC APPOINTMENTS

2017 – present **Assistant Professor**, Department of Psychology, Nanyang Technological University

EDUCATION

2013 – 2017 **Ph.D., Criminology (with Distinction)**, University of Pennsylvania

2013 – 2014 Visiting Scholar, Institute of Criminology, University of Cambridge

2012 – 2013 **M.S., Criminology**, University of Pennsylvania

2009 – 2013 **B.A., Psychology**, University of Pennsylvania
B.A., Criminology (with Distinction), University of Pennsylvania

PUBLICATIONS

Peer-Reviewed Journal Articles

- 2017 **Choy, O.**, Raine, A., Venables, P. H., & Farrington, D. P. Explaining the gender gap in crime: The role of heart rate. *Criminology*.
- 2016 **Choy, O.**, Berryessa, C. M., & Raine, A. The ethics of biological interventions on psychopathic prisoners. *AJOB Neuroscience*, 7, 154-156.
- 2015 Portnoy, J., Raine, A., Glenn, A. L., Chen, F. R., **Choy, O.**, & Granger, D. A. Digit ratio (2D:4D) moderates the relationship between cortisol reactivity and self-reported externalizing behavior in young adolescent males. *Biological Psychology*, 112, 94-106.
- 2015 **Choy, O.**, Farrington, D. P., & Raine, A. The need to incorporate autonomic arousal in developmental and life-course criminological research and theories. *Journal of Developmental and Life-Course Criminology*, 1, 189-207.
- 2015 **Choy, O.**, Raine, A., Portnoy, J., Rudo-Hutt, A., Gao, Y., & Soyfer, L. The mediating role of heart rate on the social adversity-antisocial behavior

relationship: A social neurocriminology perspective. *Journal of Research in Crime and Delinquency*, 52, 303-341.

- 2014 Raine, A., Fung, A., Portnoy, J., **Choy, O.**, & Spring, V. L. Low heart rate as a risk factor for child and adolescent aggressive and psychopathic behavior. *Aggressive Behavior*, 40, 290-299.

Book Chapters

- In press **Choy, O.**, Portnoy, J., Raine, A., Remmel, R. J., Schug, R., Tuvblad, C., & Yang, Y. Biosocial influences on offending across the life course. In D. P. Farrington, L. Kazemian, & A. R. Piquero (Eds.), *The Oxford Handbook of Developmental and Life-Course Criminology*. Oxford: Oxford University Press.

Manuscripts Submitted for Publication

- Choy, O. & Raine, A. Vitamin D as a protective factor for child antisocial behavior.
- Choy, O. & Raine, A. Antisocial personality disorder. In Bernardo J. Carducci (Ed.), *The Wiley Encyclopedia of Personality and Individual Differences*. John Wiley & Sons.
- Choy, O., Raine, A., & Hamilton, R. H. Stimulation of the prefrontal cortex reduces intentions to commit aggression: A randomized clinical trial.

Manuscripts in Preparation

- Choy, O., Murray, J., Raine, A., Assunção, M. C., Barros, F., Belem da Silva, C., ... Wehrmeister, F. Low heart rate as a partial explanation for the sex difference in crime.
- Choy, O. & Raine, A. Neurocriminological approaches to research on desistance from delinquency, crime, and violence. In Calvin M. Langton & James R. Worling (Eds.), *The Wiley Handbook of Offender Desistance from Aggression and Crime: Theory, Research, and Evidence-Based Practice*. John Wiley & Sons.

CONFERENCE PRESENTATIONS AND INVITED TALKS

- 2017 Choy, O. & Raine, A. (June 2-3). *Benign biological interventions to reduce offending*. Ghent Conference Justice without Retribution. Ghent, Belgium.
- 2017 Choy, O., Raine, A., Yang, Y., & Schug, R. (May 21-24). *The role of the striatum in psychopathy*. Meeting of the Society for the Scientific Study of Psychopathy. Antwerp, Belgium.
- 2016 Choy, O., Raine, A., Yang, Y., & Schug, R. (November 16-19). *Structural striatal abnormalities and antisocial personality disorder*. Annual meeting of the American Society of Criminology. New Orleans, LA.

- 2016 Choy, O. (November 1). *The neural basis of violent criminal intent and implications of bioscientific research on offending*, Franklin and Marshall College, Lancaster, PA.
- 2016 Choy, O., Raine, A., & Hamilton, R. H. (June 14-16). *Transcranial direct current stimulation of the prefrontal cortex modulates criminal intent: Preliminary evidence from a randomized controlled trial*. Stockholm Criminology Symposium. Stockholm, Sweden.
- 2015 Choy, O., Raine, A., Soyfer, L., & Portnoy, J. (November 18-21). *The relationship between blood lead, child psychopathy, and conduct disorder*. Annual meeting of the American Society of Criminology. Washington, DC.
- 2014 Choy, O., Farrington, D. P., & Raine, A. (November 19-22). *The need to incorporate autonomic arousal in developmental and life-course criminological research and theories*. Annual meeting of the American Society of Criminology. San Francisco, CA.
- 2014 Choy, O., Farrington, D. P., & Raine, A. (June 9-11). *The need to incorporate autonomic arousal in developmental and life-course criminological research and theories*. Stockholm Criminology Symposium. Stockholm, Sweden.
- 2014 Choy, O. (March 28). *Social adversity and antisocial behavior: The mediating role of heart rate*. Brown Bag Seminar Series, Institute of Criminology, University of Cambridge. Cambridge, UK.
- 2013 Choy, O., Raine, A., & Soyfer, L. (November 20-23). *The effect of vitamin D and social adversity on child aggression*. Annual meeting of the American Society of Criminology. Atlanta, GA.
- 2013 Choy, O., Raine, A., Portnoy, J., Rudo-Hutt, A., Gao, Y., & Soyfer, L. (March 1-4). *Low heart rate as a mediator of the social adversity-child psychopathy relationship*. Annual meeting of the Eastern Psychological Association. New York, NY.
- 2012 Choy, O., Raine, A., Portnoy, J., Rudo-Hutt, A., Gao, Y., & Soyfer, L. (November 14-17). *Low heart rate as a mediator of the social adversity-child psychopathy relationship*. Annual meeting of the American Society of Criminology. Chicago, IL.
- 2011 Choy, O., Raine, A., & Soyfer, L. (November 16-19). *Effects of vitamin D on child psychopathy*. Poster session, Annual meeting of the American Society of Criminology. Washington, DC.

SELECTED HONORS, AWARDS, AND FELLOWSHIPS

- 2017 Cheryl Wynne Hare Award, Society for the Scientific Study of Psychopathy
- 2017 Division of Experimental Criminology Student Paper Award, American Society of Criminology
- 2016 President Gutmann Leadership Award, University of Pennsylvania
- 2013 Class of 1939 Graduate Fellowship, University of Pennsylvania
- 2013 Sellin-Wolfgang Research Prize for best undergraduate thesis, Department of Criminology, University of Pennsylvania
- 2012 Lifetime member of Psi Chi (International Honor Society in Psychology)
- 2010 College Alumni Society Board of Managers & Presidents Undergraduate Research Grant, University of Pennsylvania

PEER REVIEWS

Criminology
Criminal Behaviour and Mental Health
Journal of Criminal Justice
Journal of Developmental and Life-Course Criminology
Journal of Nervous and Mental Disease
Journal of Research in Crime and Delinquency
Psychiatry Research
Psychological Medicine

RESEARCH INTERESTS

Antisocial behavior, Biosocial criminology, Developmental and life-course criminology, Psychophysiology, Experimental criminology, Transcranial direct current stimulation

RESEARCH EXPERIENCE

2009 – 2013 Jerry Lee Center of Criminology, University of Pennsylvania
July – August 2010 Department of Applied Social Sciences, City University of Hong Kong

TEACHING EXPERIENCE

Spring 2016 Teaching Assistant, Criminal Justice, University of Pennsylvania
Fall 2015 Teaching Assistant, Introduction to Quantitative Methods for Policy Analysis, University of Pennsylvania
Fall 2012 & 2014 Teaching Assistant, Biosocial Criminology, University of Pennsylvania

PROFESSIONAL EXPERIENCE

May – Dec 2011 Intern, The Forensic Panel, New York, NY

PROFESSIONAL AFFILIATIONS

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| 2017 | Society for the Scientific Study of Psychopathy |
| | American Society of Criminology |
| 2011 – present | <i>Division of Developmental and Life-Course Criminology</i> |
| 2015 – present | <i>Division of Experimental Criminology</i> |
| 2014 – present | Biosocial Criminology Association |
| 2013 | Eastern Psychological Association |