

NATASHA DUELL, PH.D.

CURRICULUM VITAE

PERSONAL INFORMATION

Department of Psychology and Neuroscience
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University of North Carolina at Chapel Hill

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My research examines cultural and biopsychosocial influences on decision-making among children and adolescents through three lines of inquiry: (1) positive risk taking (2) socio-emotional influences on decision-making, and (3) cross-cultural comparisons of risk taking. I use advanced statistical modeling and methods including questionnaires, experimental tasks, ecological momentary assessments, fMRI, and hormone samples. I am committed to cultivating an equitable and inclusive academic environment and to responsible and transparent scientific practices.

CURRENT POSITION

2021-Present **National Science Foundation Postdoctoral Fellow**
Directorate for Social, Behavioral, and Economic Sciences

EDUCATION

2018 Temple University, Ph.D., Psychology
Dissertation title: Positive Risk Taking in Adolescence

2011 University of California, Irvine, B.A., Psychology and Social Behavior (magna cum laude)

AWARDS AND FUNDING

2020-2022 Jacobs Foundation Young Scholars Grant (Co-PI)
Effects of Feedback Sensitivity and Emotion Regulation on Learning and School Performance in Adolescents from Multiple Countries
Award amount: 80,000 CHF

2018-2021 Eunice Kennedy Shriver National Institute of Child Health and Development T32 Fellowship
Frank Porter Graham Child Development Institute (formerly Center for Developmental Science)
University of North Carolina at Chapel Hill

2020 Emerging Scholar Spotlight, Society for Research on Adolescence

2019 Martinos Center for Biomedical Imaging fMRI Visiting Fellowship

2018 Visiting fellowship for the 2019 Jacobs Foundation Conference: “An agenda for research on child development and learning for the third decade of the 21st century.”

2018 Temple University Doctoral Dissertation Completion Grant (Fellowship for Spring 2018)
Award amount: \$11,000

2018 Temple University College of Liberal Arts Travel Award
Award amount: \$250

2016 Temple University College of Liberal Arts Travel Award
Award amount: \$250

2015 Mortimer D. Sackler Summer Institute Visiting Fellowship on Law and Neuroscience, *Sackler Institute for Developmental Psychobiology, Weill Cornell Medical College*

RESEARCH EXPERIENCE

2013-2018 **Graduate Research Assistant**, *Temple University*
Decision-Making in Everyday Life

2011-12 **Research Assistant**, *University of California, Irvine*
miLife Study

2010-12 **Lab Manager; Research Assistant**, *University of California, Irvine*
Crossroads: Formal versus Informal Processing in the Juvenile Justice System

PUBLICATIONS

- Fryt, J., Szczygiel, M., & **Duell, N.** *Conditionally accepted*. Positive and negative risk taking in adolescence: Age patterns and relations to social environment. *New Directions for Child and Adolescent Development*.
- Duell, N.**, & Steinberg, L. *In press*. Adolescents take positive risks, too. *Developmental Review*.
- Nelson, B. W., Flannery, J. E., **Duell, N.**, Flournoy, J., Prinstein, M. J., & Telzer, E. H. (2021). Concurrent and prospective associations between Fitbit derived RDoC arousal and regulation constructs and adolescent internalizing symptoms. *Journal of Child Psychology and Psychiatry*. doi: 10.1111/jcpp.13471.
- Duell, N.**, van Hoorn, J., McCormick, E. M., Prinstein, M. J., & Telzer, E. H. (2021). Hormonal and neural correlates of prosocial conformity in adolescents. *Developmental Cognitive Neuroscience*, 48, 100936. doi: 10.1016/j.dcn.2021.100936
- Duell, N.**, Clayton, M. G., Telzer, E. H., & Prinstein, M. J. (2020). Measuring peer influence susceptibility to alcohol use: Convergent and predictive validity of a new analogue assessment. *International Journal of Behavioral Development*. Online first. doi: 10.1177/0165025420965729
- Kwon, S-J., Turpyn, C. C., **Duell, N.**, & Telzer, E. H. (2020). Neural underpinnings of social contextual influences on adolescent risk taking. *Current Addiction Reports*. doi: 10.1007/s40429-020-00328-6.
- Duell, N.**, & Steinberg, L. (2020). Differential correlates of positive and negative risk taking in adolescence. *Journal of Youth and Adolescence*, 49, 1162-1178. doi: 10.1007/s10964-020-01237-7
- Duell, N.**, & Steinberg, L. (2019). Positive risk taking in adolescence. *Child Development Perspectives*, 13, 48-52. doi: 10.1111/cdep.12310
- Icenogle, G., Steinberg, L., **Duell, N.**, Chein, J., Chang, L., Chaudhary, N., Di Giunta, L., Dodge, K. A., Fanti, K. A., Lansford, J. E., Oburu, P., Pastorelli, C., Skinner, A. T., Sorbring, E., Tapanya, S., Uribe Tirado, L. M., Alampay, L. P., Al-Hassan, S. M., Takash, H. M. S., & Bacchini, D. (2019). Adolescents' cognitive capacity reaches adult levels prior to their psychosocial maturity: Evidence for a "maturity gap" in a multinational sample. *Law and Human Behavior*, 43, 69-85. doi: 10.1037/lhb0000315
- Scott, E. S., **Duell, N.**, & Steinberg, L. (2018). Brain development, social context and justice policy. *Washington University Journal of Law and Policy*, 57, 13-74.
- Duell, N.**, Icenogle, G., Silva, K., Steinberg, L., Chein, J., Banich, M. T., Lei, C., Chaudhary, N., Di Giunta, L., Dodge, K. A., Fanti, K. A., Lansford, J. E., Oburu, P., Pastorelli, C., Skinner, A. T., Sorbring, E., Tapanya, S., Uribe Tirado,

L. M., Alampay, L. P., Al-Hassan, S. M., Takash, H. M. S., & Bacchini, D. (2018). A cross-sectional examination of response inhibition and working memory on the Stroop task. *Cognitive Development, 47*, 19-31. doi: 10.1016/j.cogdev.2018.02.003

Duell, N., Steinberg, L., Icenogle, G., Chein, J., Chaudhary, N., Di Giunta, L., Dodge, K. A., Fanti, K. A., Lansford, J. E., Oburu, P., Pastorelli, C., Skinner, A. T., Sorbring, E., Tapanya, S., Uribe Tirado, L. M., Alampay, L. P., Al-Hassan, S. M., Takash, H. M. S., Bacchini, D., & Chang, L. (2018). Age patterns in risk taking across the world. *Journal of Youth and Adolescence, 47*, 1052-1072 doi: 10.1007/s10964-017-0752-y

Duell, N., Steinberg, L., Chein, J., Al-Hassan, S. M., Bacchini, D., Chang, L., Chaudhary, N., Di Giunta, L., Dodge, K. A., Fanti, K. A., Lansford, J. E., Malone, P. S., Oburu, P., Pastorelli, C., Skinner, A. T., Sorbring, E., Tapanya, S., Uribe Tirado, L. M., & Alampay, L. P. (2016). Interaction of reward seeking and self-regulation in the prediction of risk taking: A cross-national test of the dual systems model. *Developmental Psychology, 52*, 1593-1605. doi: 10.1037/dev0000152

Shulman, E. P., Smith, A. R., Silva, K., Icenogle, G., **Duell, N.**, Chein, J., & Steinberg, L. (2016). The dual systems model: Review, reappraisal, and reaffirmation. *Developmental Cognitive Neuroscience, 17*, 103-117. doi: 10.1016/j.dcn.2015.12.010

Duell, N., Icenogle, G., & Steinberg, L. (2016). Adolescent decision making and risk taking. In L. Balter & C. S. Tamis-LeMonda (Eds.), *Child psychology: A handbook of contemporary issues* (3rd ed.). New York, NY: Psychology Press/Taylor & Francis.

MANUSCRIPTS UNDER REVIEW (INCLUDES PRE-PRINTS)

Duell, N., Christophe, K. N., & Martin-Romero, M. Y. *Manuscript in preparation*. Risk taking profiles among college students: An examination of health risk taking, anti-racism, and college adjustment.

Armstrong-Carter, E., Do, K. T., **Duell, N.**, Kwon, S-J., Lindquist, K. A., Prinstein, M. J., & Telzer, E. H. *Pre-Print*. Adolescents' perceptions of social risk and prosocial tendencies: Developmental change and individual differences.

Armstrong-Carter, E., Bibby, E., Burroughs, M., Flannery, J., Nelson, B. W., **Duell, N.**, Prinstein, M. J., & Telzer, E. H. *Pre-Print*. The daily covariation between risk-taking and prosocial behaviors during adolescence: Individual differences by sensation seeking and social craving.

CONFERENCE TALKS

Duell, N., van Hoorn, J., McCormick, E. M., & Telzer, E. H. Hormonal and neural correlates of prosocial conformity in adolescents. **Presenting author** for symposium entitled, "Embodied Cognition: Biological, Social, and Affective Influences on Executive Functioning During Adolescence." Virtual meeting for the Society for Research on Adolescence, 2021.

Flannery, J., Jorgensen, N., Kwon, S-J., Nelson, B. W., Turpyn, C. C., **Duell, N.**, Lindquist, K. A., Prinstein, M. J., & Telzer, E. H. Covariation in adolescent social behavior and mood following COVID-19 social restriction: Moderators of neural sensitivity. Non-presenting author for submitted symposium entitled, "The Neurobiological Predictors of Mental Health during the COVID-19 Pandemic." Virtual meeting for the Society for Research in Child Development, 2021.

Duell, N., McCormick, E. M., Perino, M., & Telzer, E. (Accepted for March 2020). Risk taking and neural tracking of social threat in delinquent youth. Talk accepted for symposium entitled, "Exploring the Cognitive and Psychosocial Correlates of Delinquent Behavior among At-Risk Youth." Biennial Meeting of the Society for Research on Adolescence, San Diego, CA.¹

¹ This conference was canceled due to the COVID-19 pandemic

Duell, N., van Hoorn, J., McCormick, E. M., & Telzer, E. (Accepted for March 2020). Hormonal and neural correlates of prosocial conformity in adolescents. Talk accepted for symposium entitled, “Embodied Cognition: Biological, Social and Affective Influences on Executive Functioning During Adolescence.” Biennial Meeting of the Society for Research on Adolescence, San Diego, CA. ¹

Duell, N., Chein, J., Olino, T., & Steinberg, L. (March 2019). Teens take good risks, too: An exploratory study of positive risk taking in adolescence. Presenter at symposium entitled, “Beyond Sex, Drugs, and Rock n’ Roll: Adaptive Functions of Adolescent Risk-Taking.” Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Simmons, C., Knowles, A., **Duell, N.,** Fine, A., Steinberg, L., Frick, P. J., & Cauffman, E. (March 2019). The impact of juvenile justice system involvement on adolescent well-being. Non-presenting author at symposium entitled, “Focus on the Positives: Examining Positive Developmental Outcomes with At-Risk Populations.” Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Duell, N., Icenogle, G., & Steinberg, L. (March 2016). A cross-cultural examination of the dual systems model of adolescent risk taking. Chair and presenter at symposium entitled, “Advances in the Dual Systems Model of Adolescent Risk Taking.” Biennial Meeting of the Society for Research on Adolescence, Baltimore, MD.

CONFERENCE POSTERS

Duell, N., van Hoorn, J., McCormick, E. & Telzer, E. (August 2019). Biological correlates of prosocial decision-making: A test of brain activation and the dual-hormone hypothesis. Poster presentation for annual Flux Congress, New York, NY.

Gliozzo, G., Di Giunta, L., Icenogle, G., **Duell, N.,** Steinberg, L., Fiasconaro, I., Iselin, A-M., Lunetti, C., Pastorelli, C., Eisenberg, N., Lansford, J., Uribe Tirado, L., & Bacchini, D. (March 2019). “Cross-cultural links among executive functions, emotionality, emotion regulation, and effortful control in preadolescence.” Non-presenting author on poster. Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Duell, N., Icenogle, G., & Steinberg, L. (April 2018). “Age Patterns in Risk Taking Across the World.” Poster presentation for Biennial Meeting of the Society for Research on Adolescence, Minneapolis, MN.

Duell, N., Icenogle, G., Silva, K., Banich, M., Chein, J., & Steinberg, L. (March 2016). “Influence of Working Memory on Stroop Performance: A Developmental Examination.” Poster presented at Biennial Meeting of the Society for Research on Adolescence, Baltimore, MD.

Duell, N., & Steinberg, L. (March 2015). “Predictors and Benefits of School Engagement in Adolescent Offenders.” Poster presented at Biennial Meeting of the Society for Research on Child Development, Philadelphia, PA.

MENTORED PRESENTATIONS

* Indicates undergraduate mentee

*Netschytailo, H. (July 2020). Adolescent externalizing behaviors: How socioeconomic environment, parents, and peers affect behavior. Oral presentation for the McNair Scholar’s Program Virtual Research Symposium at the University of North Carolina at Chapel Hill.

*Culhane, A., Duell, N., & Telzer, E. H. (October 2019). Exploring racial/ethnic differences in the mediating effect of internalizing symptoms on parent-child relations and adolescent substance use. Poster presented at the annual meeting of the Society for Advancing Chicanos/Hispanics and Native American Science. Honolulu, Hawai’i.

INVITED TALKS

- 2021 “The dual systems model of adolescent risk taking,” *University of Arizona*, graduate seminar on Juvenile Delinquency and Juvenile Justice (primary instructor: Dr. Adam Fine)
- 2019 “Biological correlates of prosocial conformity: An exploration of the dual-hormone hypothesis and brain activation in adolescents,” *Duke Department of Developmental Psychology*
- 2019 “Adolescent risk taking in context,” *Duke Center for Child and Family Policy*
- 2018 “Adolescent risk taking: For better or for worse?” *UNC-Chapel Hill Department of Psychology and Neuroscience*
- 2018 “Peers and friendship,” *UNC-Chapel Hill* undergraduate course in Adolescent Development (primary instructor: Dr. Eva Telzer)
- 2018 “Age patterns in risk taking across the world,” *Rutgers University-Camden*, brownbag series for Master’s Psychology course (primary instructor: Dr. Naomi Marmorstein)
- 2017 “The adolescent brain,” *General George A. McCall Elementary School*

PRESS/PUBLIC INTEREST

Jacobs Foundation BOLD Blog: [The positive side of risk taking](#)

Medium: [Teenage Brain Runs on Raw Emotion](#)

NIH Science Update: [Adolescents who take positive risks tend to be less impulsive, more connected to school](#)

TEACHING AND LEADERSHIP

- Spring 2021 **Primary Instructor, Temple University**
Capstone in Psychology: Adolescent Development (online synchronous)
- August 2019 **Co-Organizer, Flux Congress (pre-conference workshop)**
Sponsored by Hopelab and the Bezos Family Foundation
Beyond the lab: Translating developmental neuroscience
- Fall 2017 **Recitation Leader, Temple University**
Brain Matters (undergraduate course)
Instructor: Dr. Peter James
- Summer 2016 **Primary Instructor, Temple University**
Capstone in Psychology: Adolescent Development
- 2015-16 **Teaching Assistant, Temple University**
Graduate Statistics in Psychology
Instructor: Dr. Andrew Karpinski

STATISTICAL TRAINING

- 2020 Network Analysis Webinar, *Curran-Bauer Analytics*
- 2016 Structural Equation Modeling Graduate Course, *Temple University*
- 2015 Hierarchical Linear Modeling Graduate Course, *Temple University*
- 2014 Multivariate Statistics Graduate Course, *Temple University*

PROFESSIONAL SEMINARS

- 2020 Adolescent Brain Cognitive Development – ReproNim: Virtual Training for Reproducible Analyses of the ABCD Study Data

- 2019 Saliva Biomarkers Workshop: Integrating Salivary Bioscience into Behavioral, Developmental & Health Science Research, *UNC Chapel Hill*
- 2019 Promoting positive risk taking and well being in adolescents and young adults, informal workgroup hosted by *Hopelab, San Francisco*
- 2018 The Adolescent Brain workshop, *Neuroscience School of Advanced Studies*
- 2016 Online Teaching Workshop, *Temple University Center for the Advancement of Teaching*
- 2015 Law and Neuroscience Symposium: “Court Involved Youth in the 21st Century: Empowerment vs. Protection,” *Juvenile Law Center*

SERVICE AND OUTREACH

- 2020-present **Editorial Board**, *Journal of Youth and Adolescence*
- 2020-present **Committee Member**, *University of North Carolina at Chapel Hill*
Department of Psychology and Neuroscience Anti-Racism Education and Training Committee
- 2020-present **Committee Member**, *University of North Carolina at Chapel Hill*
Department of Psychology and Neuroscience Climate and Inclusion Committee
- 2020-present **Committee Member**, *University of North Carolina at chapel Hill*
Department of Psychology and Neuroscience Accountability Committee
- Summer 2020 **Trainee**, Academics for Black Survival and Wellness allyship workshop
- Spring 2020 **Planning Committee Member**, *University of North Carolina at Chapel Hill*
Carolina Consortium on Human Development Proseminar Series: The Brain-Body Connection and Links to Mental and Physical Health Across the Lifespan
Instructor: Dr. Eva Telzer
- Spring 2019 **Trainee**, Helping Advocates for Ending Violence Now (HAVEN) Training, *UNC-Chapel Hill*
- Fall 2019 **Trainee**, SafeZone LGBTQ+ Awareness and Ally Training, *UNC-Chapel Hill*
- 2018, 2019 **Planning Committee Member**, *University of North Carolina at Chapel Hill*
Brain Academy (this program offers a collegiate experience to middle school students from underrepresented groups)
- 2016-2017 **Co-Coordinator**, *Temple University*
Developmental Psychology Colloquium Committee
- 2014-2015 **Graduate Student Recruitment Organizer**, *Temple University*
Developmental Psychology

AD-HOC REVIEWER

Assessment, Cognition, Development and Psychopathology, Developmental Psychobiology, Developmental Psychology, Journal of Adolescence, Journal of American College Health