

# Courtney A. Filippi

Child Development Lab  
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## EDUCATION

- 2016 Ph.D. Developmental Psychology  
University of Chicago
- 2013 M.A. Developmental Psychology, Concentration: Integrative Neuroscience  
University of Chicago
- 2011 B.A. Cognitive Science, Concentration: Cognitive Psychology  
University of Virginia

## RESEARCH EXPERIENCE

- 2016- Postdoctoral Fellow, NIMH- Section on Development and Affective Neuroscience & UMD- Child Development Lab  
Advisors: Nathan Fox, Daniel Pine
- 2012-2014 Visiting Graduate Student Researcher, Child Development Lab, UMD  
Advisor: Nathan Fox
- 2011-2016 Graduate Student, Department of Psychology, UChicago  
Advisor: Amanda Woodward
- 2010- 2011 Honors Thesis Student, Cognitive Science Department, UVA  
Advisor: Rachel Keen
- 2009- 2010 Research Assistant, Center for Advanced Study of Teaching & Learning, UVA  
My Teaching Partner Research Team
- 2009 – 2010 Undergraduate Student Researcher, Department of Kinesiology, UMD  
Advisors: Jane Clark & Marcio Oliveira
- 2008- 2009 Research Assistant, Child Study Center, UVA  
Advisor: Judy DeLoache

## RESEARCH SUPPORT

- K99/R00 Pathway to Independence Award \$747,000  
National Institute of Mental Health  
“Identifying neural markers of risk for anxiety in infancy”  
**Recommended for funding**
- 2020-2022 NARSAD Young Investigator Grant \$70,000  
Brain & Behavior Research Foundation

## PUBLICATIONS

<sup>+</sup> *Student author*

\* Shared first authorship

1. Ravi, S.<sup>+</sup>, Havewala, M., Kircanski, K., Brotman, M., Schneider, L.<sup>+</sup>, Fox, N.A., Pine, D., Leibenluft, E., **Filippi, C.** (in press). Parenting and childhood irritability: How parents respond to children’s negative emotions moderates the development of irritability. *Development and Psychopathology*
2. Harrewijn, A., Cardinale, E.M., Groenewold, N.A., ...**Filippi, C.A.**...Winkler, A.M., Pine, D.S. (in press). Cortical and subcortical brain structure in generalized anxiety disorder: Findings from 28 international sites in the ENIGMA-Anxiety Working Group. *Translational Psychiatry*.
3. **Filippi, C.**, Subar, A.<sup>+</sup>, Ravi, S.<sup>+</sup>, Haas, S., Troller-Renfree, S., Fox, N.A., Leibenluft, E., Pine, D.S. (2021). Developmental changes in the association between cognitive control and anxiety. *Child Psychiatry and Human Development*.
4. **Filippi, C.**, Ravi, S.<sup>+</sup>, Bracy, M.<sup>+</sup>, Winkler, A.M., Sylvester, C.M., Pine, D.S., Fox, N.A. (2020). Amygdala functional connectivity and negative reactive temperament at age 4 months. *Journal of the American Academy of Child & Adolescent Psychiatry*. <https://doi.org/10.1016/j.jaac.2020.11.021>
5. Thompson, P.M., Jahanshad, N., Ching, C.R.K., ...**Filippi, C.**, Zelman, V. (2020). ENIGMA and global neuroscience: A decade of large-scale studies of brain in health and disease across more than 40 countries. *Translational Psychiatry*, 10. <https://doi.org/10.1038/s41398-020-0705-1>
6. Zugman, A., Harrewijn, A., Cardinale, E., .... **Filippi, C.**, ...Winkler, A. (2020). Mega-Analysis Methods in ENIGMA: The experience of the generalized anxiety disorder working group. *Human Brain Mapping*. <https://doi.org/10.1002/hbm.25096>
7. **Filippi, C.**, Sachs, J.F.<sup>+</sup>, Phillips, D.<sup>+</sup>, Winkler, A., Gold, A.L., Leibenluft, E., Pine, D.S., Fox, N.A. (2020). Infant behavioral reactivity predicts change in amygdala volume 12 years later. *Developmental Cognitive Neuroscience*, 42, <https://doi.org/10.1016/j.dcn.2020.100776>
8. **Filippi, C.**, Subar, A.R.<sup>+</sup>, Sachs, J.<sup>+</sup>, Kircanski, K., Winker, A., Buzzell, G., Pagliaccio, D., Abend, R., Sylvester, C., Fox, N., Leibenluft, E., Pine, D. (2019). Developmental pathways to social anxiety and irritability: Cognitive control as a moderator. *Development and Psychopathology*. <https://doi.org/10.1017/S0954579419001329>
9. **Filippi, C.**, Choi, YB.<sup>+</sup>, Fox, N., & Woodward, A. (2019). Neural correlates of infant action processing relate to theory of mind in childhood. *Developmental Science*, 10.1111/desc.12876
10. Abend, R., Swetlitz, C., White, L.K., Shechner, T., Bar-Haim, Y., **Filippi, C.**, Kircanski, K., Benson, B.E., Chen, G., Leibenluft, E., Fox, N.A., Pine, D.S. (2019). Levels of early-life behavioral inhibition predict distinct neurodevelopmental pathways to pediatric anxiety. *Psychological Medicine*. <https://doi.org/10.1017/S0033291718003999>
11. Novack, M., **Filippi, C.**, Goldin-Meadow, S., Woodward, A. (2018). Actions speak louder than gestures when you’re two years old. *Developmental Psychology*. 54(10), 1809-1821. <http://dx.doi.org/10.1037/dev0000553>
12. **Filippi, C.**, Cannon, E., Fox, N., Thorpe, S., Ferrari, P. & Woodward, A. (2016). Motor system activation predicts goal imitation in 7-month-old infants. *Psychological Science*, 10.1177/0956797616632231

13. **Filippi, C.**, Woodward, A.L. (2016). Action experience changes attention to kinematic cues. *Frontiers in Psychology*, 7: 19. 10.3389/fpsyg.2016.00019
14. **Filippi, C.** & Woodward, A. (2015). Mirroring and the ontogeny of social cognition. In P.F. Ferrari & G. Rizzolatti (Eds.) *New Frontiers in Mirror Neurons Research*. Oxford: Oxford University Press.
15. Krogh-Jespersen, S., **Filippi, C.**, Woodward, A.L. (2014). Commentary on Cook et al.: A developmental perspective on action and social cognition. *Behavioral and Brain Sciences*, 37(2), 208-209. 10.1017/S0140525X13000903

## SUBMITTED MANUSCRIPTS

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<sup>+</sup> *Student author*      \* Shared first authorship

**Filippi, C.A.**, Eisenband-Metz, L., Woodward, A. (R&R). Infants integrate information across levels of action analysis to interpret action sequences. *Infancy*.

**Filippi, C.A.\***, Valadez, E.A.\*, Fox, N.A., Pine, D. (under review). Temperament as a pathway to anxiety: Uncovering the developmental pathophysiology of risk. *Current Opinion in Behavioral Sciences*.

Korom, K.\*, Camacho, M.C.\*, **Filippi, C.A.**, Licandro, R., Moore, L.A., Dufford, A., Zollei, L., Graham, A.M., Spann, M., Howell, B., FIT<sup>2</sup>NG Group, Shultz, S.\*, Scheinost, D\*. (under review). Dear Reviewers: Responses to common reviewer critiques about infant neuroimaging studies. *Developmental Cognitive Neuroscience*.

Pollatou, A.\*, **Filippi, C.A.\***, Aydin, E., Vaughn, K., Thompson, D., Korom, M., Dufford, A.J., Howell, B., Zollei, L., Scheinost, D., Di Martino, A., Graham, A.M., FIT<sup>2</sup>NG Group, Spann, M. (under review). An ode to Fetal, Infant, and Toddler Neuroimaging: Chronicling early clinical to research applications with MRI, and an introduction to a society connecting the field. *Developmental Cognitive Neuroscience*.

Cardinale, E.M., Bezek, J., Morales, S., **Filippi, C.A.**, Smith, A.R., Haller, S., Valadez, E.A., Harrewijn, A., Phillips, D., Chronis-Tuscano, A., Brotman, M.A., Fox, N.A., Pine, D.S., Leibenluft, E., Kircanski, K. (submitted). Cross-sectional and longitudinal associations of anxiety and irritability with adolescents' neural responses to cognitive conflict. *Biological Psychiatry*.

## MANUSCRIPTS IN PREPARATION

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<sup>+</sup> *Student author*      \* Shared first authorship

**Filippi, C.A.**, Morales, S., Winkler, A., Bracy, M., Leach, S., Ravi, S., Buzzell, G., Pine, D.S., Fox, N.A. (in prep). Attention to novelty in 4-month-olds: Linking ERP indices with fMRI intrinsic functional connectivity.

Chung, H., **Filippi, C.A.**, Woodward, A. (in prep). The benefits of active experience on action understanding.

Groenewold, N.A., Bas-Hoogendam, J.M., Amod, A.R.... **Filippi, C.A.**...Thompson, P.M., Stein, D.J., van der Wee, N.J.A. (in prep). Volumetric alterations in subcortical circuitry in social anxiety disorder: Meta-analytic and mega-analytic results from ENGIMA-Anxiety.

## INVITED TALKS

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2021      Functional Connectivity relates to electrophysiological markers of attention in infancy  
 Society of Biological Psychiatry  
 Virtual (COVID)

- 2020 Neural correlates of infant reactivity to novelty  
Occasional Temperament Conference  
Virtual (COVID)
- 2020 Associations between amygdala connectivity and infant reactivity  
International Society for Developmental Psychobiology  
Virtual (COVID)
- 2020 Salience network functional connectivity relates to electrophysiological markers of attention  
in infancy  
FLUX Congress  
Virtual (COVID)
- 2020 Brain & Behavior: New insights into neural correlates of infant emotion regulation  
International Conference on Infant Studies  
Virtual (COVID)
- 2018 Developmental pathways to social anxiety and irritability: Cognitive control as a moderator  
Fellows' Afternoon Neuroscience Seminar  
Bethesda, MD
- 2017 Examining the relation between behavioral inhibition and cortical thickness  
Neurodevelopmental Disorders Scientific Interest Group  
Bethesda, MD
- 2016 From Action to Abstraction: The development of early social cognition  
International Conference on Infant Studies  
New Orleans, LA
- 2016 Bridging the gap between self & other: Integrating neural and behavioral measures  
Origins of body representations: Integrating cognitive, motor, neural, and perceptual  
perspectives  
New Orleans, LA
- 2015 From Brain to Behavior: Sensorimotor foundations of social cognition  
University of Chicago Cognitive Brownbag  
Chicago, IL
- 2014 Motor system activation predicts goal analysis in 7-month-old infants  
Action development: Theory and methods  
Berlin, Germany
- 2014 Neural mirroring predicts imitative behavior in 7-month-old infants  
International Conference on Infant Studies  
Berlin, Germany

## SELECTED CONFERENCE POSTERS

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<sup>+</sup> *Student author*

1. Bezek, J.L., Freitag, G., Subar, A<sup>+</sup>, **Filippi, C.**, Brotman, M.A., Pine, D.S., Leibenluft, E., Kircanski, K., Cardinale, E.M. (April 2020). A latent variable approach to examining inhibitory control in pediatric psychopathology. *Society of Biological Psychiatry*, New York.
2. Ravi, S.<sup>+</sup>, **Filippi, C.**, Fox, N., Pine, D., Sylvester, C. (August 2019). Associations Between Infant Reactivity and Resting State Functional Connectivity. *FLUX*, New York.
3. Ravi, S., Schneider, L., Fox, NA., Pine, DS., Leibenluft, E., **Filippi, C.** (May 2019). Negative Parenting, Not Positive Parenting, Influences the development of irritability in children. *APS*. Washington, DC.
4. Phillips, D.<sup>+</sup>, Margolis, E.<sup>+</sup>, Fopenawoh, A.<sup>+</sup>, Gold, A., Pacheco, J., Leibenluft, E., Fox, N.A., Pine, D., **Filippi, CA.** The precursors of mood and anxiety disorders: Behavioral reactivity and approach-avoidance tendencies in infants. *Anxiety and Depression Association of America*. Washington, DC.
5. Brooks, J.<sup>+</sup>, Cardinale, EM., Gold, A., **Filippi, C.A.** Sachs, J., Steuber, E., Pacheco, J., Pine, D., Leibenluft, E., Brotman, MA. An Investigation of Anxiety and Irritability as Predictors of Cortical Volume in Youth. *Anxiety and Depression Association of America*. Washington, DC.
6. Subar, A.<sup>+</sup>, Buzzell, G., Fox, NA., Leibenluft, E., Pine, D., **Filippi, C.A.** Does cognitive control moderate the relation between risk factors for psychopathology and later outcomes? *Anxiety and Depression Association of America*. Washington, DC.
7. **Filippi, CA.**, Woodward, A. (October 2017). Infant fine motor skill predicts goal imitation of fine motor actions. *Cognitive Development Society*, Portland, WA.
8. **Filippi, C.**, Kircanski, K., Sachs, J.<sup>+</sup>, Pacheco, J., Winker, A., Gold, A., Pagliaccio, D., Fox, N., Pine, D., Leibenluft, E. (September 2017). Examining childhood irritability in a behaviorally inhibited sample: Relations between irritability and brain morphometry. *Congress on Pediatric Irritability and Dysregulation*, Burlington, VT.
9. Sachs, JF<sup>+</sup>, **Filippi, CA.**, Kircanski, K., Pacheco, J., Gold, AL., Sylvester, C., Pagliaccio, D., Abend, R., Fox, NA., Leibenluft, E., Pine, D. (October 2017). Investigating How Irritability Across Development Is Related to Brain Structure in Middle Childhood. *American Academy of Child & Adolescent Psychiatry*, Washington, DC.
10. Novack, M., **Filippi, C.**, Goldin-Meadow, S., Woodward, A. (July 2016). 2.5-year-olds interpret handshape differently in action and gesture. *International Society for Gesture Studies*.
11. **Filippi, C.**, Choi, YB<sup>+</sup>, Cannon, E., Fox, N., Thorpe, S., Woodward, A. (May 2016). Thinking about others' thoughts: Can neural activity in infancy predict development of theory of mind? *International Conference on Infant Studies*. New Orleans, LA.
12. **Filippi, C.**, Ross, L.<sup>+</sup>, Cannon, E., Thorpe, S., Fox, N., Woodward, A. (October 2015). Neural correlates of motor planning in infancy. *Cognitive Development Society*. Columbus, OH.
13. Novack, M., **Filippi, C.**, Goldin-Meadow, S., Woodward, A. (March 2015). Actions speak louder than gestures when you're two years old. *Society for Research in Child Development*, Philadelphia, PA.
14. **Filippi, C.**, Rekenhaller, N.<sup>+</sup>, Cannon, E., Fox, N., Thorpe, S., Ferrari, P., Woodward, A. (March 2015). From brain to behavior: Investigating the neural correlates of infant action imitation in the mu- and beta- frequency bands. *Society for Research in Child Development*, Philadelphia, PA.
15. **Filippi, C.**, Woodward, A. (April 2013). Anticipatory Reaching And Action Observation: Do 13-month-olds make goal predictions based on the shape of a person's hand? *Society for Research in Child Development*. Seattle, WA.

16. **Filippi, C.,** Woodward, A. (Sept 2012). Anticipatory reaching ability and action observation: Do 13-month-olds make goal predictions based on the orientation of a person's hand? *Mirror neurons: New frontiers 20 years after their discovery*. Erice, Italy.
17. **Filippi, C.,** Woodward, A. (June 2012). Goal Prediction: Do 13-month old infants make goal predictions based on the shape of someone's hand? *EyeTracKids Conference*. Minneapolis, MN.

## TRAINING FELLOWSHIPS & AWARDS

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2016-2021	Intramural Research Training Award
2015	Summer Institute in Cognitive Neuroscience Fellowship
2015	Cognitive Development Society Diversity Travel Award
2015	Travel & Research Grant from Psychology Graduate Student Organization
2014	Graduate Student Affairs Travel Fund
2014	Graduate Council Travel Fund
2013 & 2014	Norman H. Anderson Research Fund Travel Grant
2012	Travel & Research Grant from Psychology Graduate Student Organization
2012	Maryland Neuroimaging Center Summer Institute Fellowship
2011-2012	Social, Behavioral and Economic Sciences Fellowship
2011-2016	Five-Year Social Sciences Fellowship
2011	Distinguished Major- <i>Highest Distinction</i> (University of Virginia)
2007-2008	Trustees Scholarship

## SPECIALIZED TRAINING

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2017	Structural Equation Modeling, Dr. Gregory Hancock, University of Maryland
2017	AFNI Bootcamp
2016	Tobii Eye Tracking Pro Workshop
2015	Summer Institute in Cognitive Neuroscience
2015	Chicago Neuroimaging Workshop
2014	Modeling and Signal Analysis for Neuroscientists Course, University of Chicago
2013	ERP Application Workshop, Dr. Bruce Bartholow, University of Chicago
2013	Workshop on Teaching in the College, UChicago
2012-2015	Infant EEG training, Child development lab, University of Maryland
2012	EEG training, Center for Cognitive and Social Neuroscience, University of Chicago
2012	Maryland Neuroimaging Center Workshop on Developmental Social Neuroscience

## TEACHING EXPERIENCE

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### Teaching Assistantships:

2015	<u>Introduction to Developmental Psychology</u> , University of Chicago Professors A. Woodward & K. Kinzler
2015	<u>Psychological Research Methods</u> , University of Chicago Professor A. Henley
2014	<u>Cognitive Psychology</u> , University of Chicago Professor D. Gallo
2013	<u>Introduction to Developmental Psychology</u> , University of Chicago Professors K. Kinzler & L. Richland

### Child Development Lab Postbac Students:

2021-23	Hannah Hardiman	Postbac at UMD
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2021-22	Misha Jaramillo	Postbac at UMD
2020-21	Apongwu Fopenawoh	Medical student at WVSOM
2019-21	Maya Bracy	Graduate student at UNC Chapel Hill
2018-20	Sanjana Ravi	Graduate Student at Vanderbilt University

#### Postbac Intramural Research Training Award Students:

2017-19	Dominique Phillips	Graduate Student at University of Miami
2017-19	Anni Subar	Graduate Student at University of Denver
2017-18	Daniel Coppersmith	Graduate Student at Harvard
2016-17	Jessica Sachs	Medical Student at Medical College of Wisconsin
2016-17	Adina Heckelman	Graduate Student at Columbia University

#### Honors Thesis Student:

2020	Christina Capozzoli	4 <sup>th</sup> Year UG at UMD <i>*Awarded Summer Scholars</i>
2016	Yeo Bi Choi	Graduate Student at Dartmouth

#### Undergraduate Independent Project Students:

2020-	Eunha Yim	3 <sup>rd</sup> year UG at UMD <i>*Awarded NIH Summer Internship</i>
2021-	Karis Tucker	3 <sup>rd</sup> year UG at UMD <i>*Awarded Summer Scholars</i>
2019-2020	Kayla Foster	BA from University of Maryland <i>*Awarded Summer Scholars</i>
2017-2020	Emma Margolis	Postbac at University of Delaware-Mary Dozier <i>*Awarded Summer Scholars</i>
2017-2020	Apongwu Fopenawoh	Medical student at WVSOM
2017-2020	Leslie Schneider	Teach for America <i>*Awarded NIH Summer Internship</i>
2016	Naoman Arif	BA from University of Chicago <i>*Selected for Clinical Scholars Program</i>
2016	Xinyi Wei	Postbac at NYU
2016	Jenny Kim	BA from University of Chicago

#### MEDIA COVERAGE

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2016	Research covered by <a href="#">Psychology Today</a>
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#### ACADEMIC SERVICE

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2021	FIT'NG Co-chair Operations
2020	FIT'NG Best Practices and Guidelines Working Group
2016-2020	Lab representative for Infant and Child Studies Database Planning Meetings
2016	New IRTA recruitment coordinator, NIMH
2014-2015	Academic Life Committee Member- University of Chicago Psychology Graduate Student Organization
2013	Volunteer for UVA Alumni Admissions Network
2012-2017	Scholarship Reviewer for National Society for Collegiate Scholars
2012-2013	Co-Organizer of UChicago Prospective Graduate Student Weekend
2010-2011	President of UVA Cognitive Science Society
2009-2010	Symposium Planning Committee for UVA Undergraduate Research Network
2009-2010	Society Creative Director for UVA Cognitive Science Society

**AD HOC REVIEWER**

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Biological Psychiatry, Neuroscience Letters, Developmental Cognitive Neuroscience, Infancy, Psychological Medicine, Developmental Psychology, Infant Behavior and Development, Perspectives in Psychological Science, European Journal of Developmental Psychology, Neuropharmacology, Neuroscience and Biobehavioral Reviews, Psychopathology

**PROFESSIONAL AFFILIATIONS**

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Fetal, Infant, and Toddler Neuroimaging Group (FIT'NG), Cognitive Development Society, International Society on Infant Studies, Society for Research in Child Development, Society for Neuroscience

**REFERENCES**

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Nathan Fox, PhD  
Distinguished University Professor  
Department of Human Development and Quantitative Methodology  
Director of Child Development Lab  
University of Maryland  
3304 Benjamin Building  
College Park, MD 20742  
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Daniel Pine, MD  
Chief of Emotion and Development Branch  
Chief of Section on Development and Affective Neuroscience  
National Institute of Mental Health  
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Amanda Woodward, PhD  
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