

2024 Flux Congress Program Book

The Society for Developmental Cognitive Neuroscience

Baltimore, MD, USA September 28-30, 2024

www.fluxsociety.org



flux

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Welcome to the 12th Annual Meeting of Flux

Dear Fluxers,

Welcome to the 12th Annual Flux Congress of the Society for Developmental Cognitive Neuroscience in Baltimore, Maryland!

We are excited to announce that we have over **640 registrants** and over 700 members committed to the Flux Society.

We owe a tremendous thank you to our 2024 Program Chair, **Margaret Sheridan** (University of North Carolina at Chapel Hill), and the **2024 Program Committee** for curating an outstanding scientific program. The committee organized a total of **41 talks**, including invited and selected symposia, award talks, flash talks. The committee reviewed a large number of excellent and highly competitive symposium submissions, making the final selection incredibly challenging. We encourage authors of unselected submissions to refine and resubmit them for future meetings.

We are delighted to highlight our pioneers in the field with the **Huttenlocher Award Lecture**. This year, we proudly present the 2024 Huttenlocher Award to **Brad Schlaggar** (Kennedy Krieger Institute) for his groundbreaking work on the development of the brain's functional network architecture in both typically and atypically developing children. With nearly 200 publications, Brad is recognized as a highly cited neuroscientist and is one of the co-founders of the Flux Society.

We also congratulate **feifer** (University of Oregon), the recipient of the **Linda Spear Mid-Career Award**, for her research on the interconnected trajectories of biological and social development throughout adolescence and their bidirectional relationships with mental health and behavior. This award honors Dr. Linda Spear, a pioneer in developmental neuroscience, and recognizes outstanding contributions by mid-career scientists.

Rachel Romeo (University of Maryland, College Park) is this year's **Young Investigator Awardee**, selected from a highly competitive set of candidates for her exceptional work and talk. We extend our gratitude to the Kennedy Krieger Institute for their continued support of the Young Investigator Award.

A huge congratulations to the **2024 Dissertation Award** winner, **Felicia Hardi** (Wu Tsai Institute Postdoctoral Fellow at Yale University), who will be presenting her talk as part of her award.

Each year, the **Jacobs Science of Learning Symposium (SOL)** highlights novel connections between Flux Society research and the broader field of human learning. This year's symposium is titled: "Thriving in Early Development: Improving Research to Address Policy" featuring speakers **Emily Merz** (Colorado State University), **Nicholas Judd** (Donders Institute), **Tomas Paus** (University of Montreal), and **Ece Demir-Lira** (University of Iowa). We thank the **Jacobs Foundation** for their support in making this symposium possible.

We appreciate the Scientific Program Committee for organizing the pre-conference workshops: "**Developing a Toolkit for the Interaction between Executive Function (EF) and Learning Disabilities**," sponsored by Kennedy Krieger; "**Beyond SES: Novel Resources for Placing Adolescent Brain and Cognitive Development (ABCD) Investigations in the Context of Inequities in School Quality, Learning Opportunities, Academic Achievement Outcomes, and Neighborhood Characteristics**," sponsored by Stanford Educational Neuroscience Initiative (SENSI); and "**A New User's Guide to the Healthy Brain Child Development (HBCD) Study**."

A special thank you to the Flux Trainee Committee, led by co-chairs **Phoebe Thomson** (Child Mind Institute) and **Niamh MacSweeney** (University of Oslo), for organizing trainee initiatives during this year's Congress. The Trainee Panel Workshops, Career Perspectives Panel, organized by **Michelle Shipkova** (University of North Carolina at Chapel Hill) and **Amanda Boyes** (Thompson Institute), and the Grant Writing Panel, organized by **Jin Wang** (Harvard University) and **Lucy Zhang** (University of Melbourne) are back again.

The **Mentor/Mentee Match-Up**, led by Trainee Committee Members **Felicia Hardi** (University of Michigan) and **Plamina Dimanova** (University of Zurich), and the Student & Early Career Researchers Lunch, led by **Yara Toenders** (Erasmus University Rotterdam) and **Simone Dobbelaar** (Leiden University), will be held off-site at **Lebanese Taverna** (located on The Charm'tastic Mile at 719 S President St, Baltimore).

We are enormously grateful to the **2024 Flux Local Organizing Committee**, led by **Brad Schlaggar** (Kennedy Krieger Institute) and **Chandan Vaidya** (Georgetown University), for assisting with local logistics, raising funds from their universities and several non-profit organizations (see sponsor list below), and organizing the off-site Explore Baltimore: Cultural Experience Night.

As you might have already heard, the “Flux Fun Night” has been reimagined into the **Explore Baltimore: Cultural Experience Night**, and is included in your Congress registration fee. This event will take place on Saturday, September 28th, at the **American Visionary Arts Museum** (800 Key Hwy, Baltimore), beginning at 6:30 PM. Enjoy an evening of food, drinks, and networking opportunities in a relaxed setting to connect with fellow attendees.

We thank the Flux Diversity, Inclusion, and Belonging Committee, co-chaired by **Stefanie Bodison** (University of Florida) and **Jenn Pfeifer** (University of Oregon), and their committee members for developing the Flux Diversity Session and far-reaching Affinity Groups. Learn more about how you can participate [here](#).

Flux is grateful for the successes of our Communications Committee (ComCom), chaired by **Tzipi Horowitz-Kraus** (Technion-Israel Institute of Technology and Kennedy Krieger Institute) and co-chair **Barbara Braams** (Vrije Universiteit Amsterdam.) They have elevated our communication within Flux and with the wider community through social media (Facebook, Twitter, LinkedIn), the Flux website blog, and the Flux Podcast (Sensitive Periods: A Flux Society Podcast). Thank you, team, for your hard work and dedication.

We also extend our thanks to our sponsors and exhibitors: **Kennedy Krieger, Johns Hopkins University, University of Maryland, Georgetown University, Lieber Institute for Brain Development, Children’s National, Elsevier, and Brain Vision, LLC**, for their support of the 2024 Flux Congress. Please visit their booths in the pre-function space of the Congress and thank them for all their support.

The **Business Meeting** for Flux Society members will be held virtually in Q1 2025; stay tuned for details. We will also have a virtual **Flux Round Table** following the business meeting. Additionally, our exciting **Public Outreach Event** will take place in Q2 2025.

After last year’s Congress, and in response to Flux’s growth, Flux has moved to a new Society and Conference Management Company. Thank you to **Parthenon Management Group** and their staff, Flux Executive Director, Kent Prickett; Meetings Manager, Laura Reynolds; Content Manager, Rebecca Shannon; Member Service Manager, Melanie Friebe, and Director of Association Services, Stephanie Sartin; and the rest of the PMG team.

Their hard work, vision, and dedication have been instrumental in implementing the Congress, revamping our governance structure, creating our inaugural Flux Strategic Plan, managing committees, and more.

A reminder of the bond that brings us together: **“Flux” is not an acronym but a term highlighting our unique focus** on the dynamic nature of cognition through development.

We remind you of our ever-growing **job bank**, which features postings for every level of career development for both job seekers and employers.

We are delighted to invite you to the 2025 Flux Congress in **Dublin, Ireland**, which promises to be an outstanding meeting. Stay tuned for more information!

A warm thank you to the **members of the Flux Society and conference participants** for your enthusiasm and dedication. Welcome to new Fluxers, and a special thank you to those who have supported Flux throughout its maturation—your contributions are greatly appreciated!

We look forward to **expanding** our understanding of developmental cognitive neuroscience, and **interacting** with attendees, and are confident that you will leave with **new insights, friendships, and enhanced creativity** in your approach.

Connect with us on Facebook, X (formerly Twitter), and LinkedIn. Tag @FluxSociety in all your social media posts and use #Flux2024 to join the conversation!



Eveline Crone
Flux President

Erasmus University Rotterdam
Netherlands



CONFERENCE WIFI:

Network Name: Flux_Conference

Password: Flux2024

MEETING VENUE

Baltimore Marriott Waterfront
700 Aliceanna Street
Baltimore, MD 21202
United States of America

All educational congress sessions will take place at the hotel, and the Trainee Luncheon and Explore Baltimore: Cultural Experience Night will take place at an offsite venue.

REGISTRATION

Congress registration fees include access to all sessions including, the Explore Baltimore: Cultural Experience Night, speaker presentations, coffee breaks, and poster sessions.

NAME BADGES

Your name badge is your admission ticket to all conference sessions and coffee breaks. Please wear it at all times.

REGISTRATION AND INFORMATION DESK HOURS

The Registration and Information Desk, located on the fourth-floor Mezzanine, will be open during the following dates and times:

- Friday, September 27 2:30 PM - 7:00 PM
- Saturday, September 28 8:00 AM - 5:30 PM
- Sunday, September 29 8:00 AM - 7:00 PM
- Monday, September 30 8:00 AM - 4:00 PM

If you need assistance during the meeting, please visit the Registration Desk.

STAFF

Congress staff from Parthenon Management Group can be identified by their kelly green shirts, and Flux Society name badges. For immediate assistance, please visit us at the registration desk in the lobby.

INTERNET SERVICES

Wireless Internet is available to delegates for no charge. Kindly note: the WiFi strength is ideal for checking emails and websites but is not strong enough for streaming videos or heavy social media use.

If you are active on social media, make sure to hashtag #FLUX2024 @FluxSociety when referring to the meeting. We ask all Flux delegates to respect no live tweeting of presentations without prior approval from the speakers and authors. We encourage social tweets about the conference and look forward to growing our online community.

GENERAL INFORMATION

POSTER INFORMATION SET-UP / REMOVAL

There are three Poster Sessions during the congress and posters have been allocated to one of the sessions. Poster presenters must set up and remove their posters during the following times.

Poster Session I – Saturday, September 27

- Poster Set-up: 8:00 AM and 12:00 PM
- Poster Gallery Open: 12:00 PM - 3:30 PM
- Poster Presentations: 4:00 PM - 5:30 PM
- Removal: No later than 6:00 PM

Poster Session II – SUNDAY, September 28

- Poster Set-up: 8:00 AM and 12:00 PM
- Poster Gallery Open: 12:00 PM - 5:00 PM
- Poster Presentations: 5:30 PM - 7:00 PM
- Removal: No later than 7:30 PM

Poster Session III – MONDAY, September 29

- Poster Set-up: 8:00 AM and 11:00 AM
- Poster Gallery Open: 11:00 AM - 1:00 PM
- Poster Presentations: 1:15 PM - 2:45 PM
- Removal: No later than 4:00 PM

FLUX SOCIAL FUNCTIONS

Explore Baltimore: Cultural Experience Night

This event will take place on Saturday, September 28th, at the American Visionary Arts Museum (800 Key Hwy, Baltimore), beginning at 6:30 PM. **While this event is complimentary, preregistration and a ticket will be required.**

Enjoy an evening of food, drinks, and networking opportunities in a relaxed setting to connect with fellow attendees.

TRAINEE LUNCH

This event will occur on Saturday, September 28th, and will be held off-site at Lebanese Taverna (located on The Charm'tastic Mile at 719 S President St, Baltimore), beginning at 11:50 AM. **While this event is complimentary, preregistration and a ticket will be required.**

FLUX CONGRESS APP

NEW FOR 2024! Stay connected and organized with the Flux Congress App! Access speaker information, interactive maps, session submissions, poster schedules, and much more in one convenient place.

You can download the Flux Congress app on your iPhone [here](#) and for your Android device [here](#).

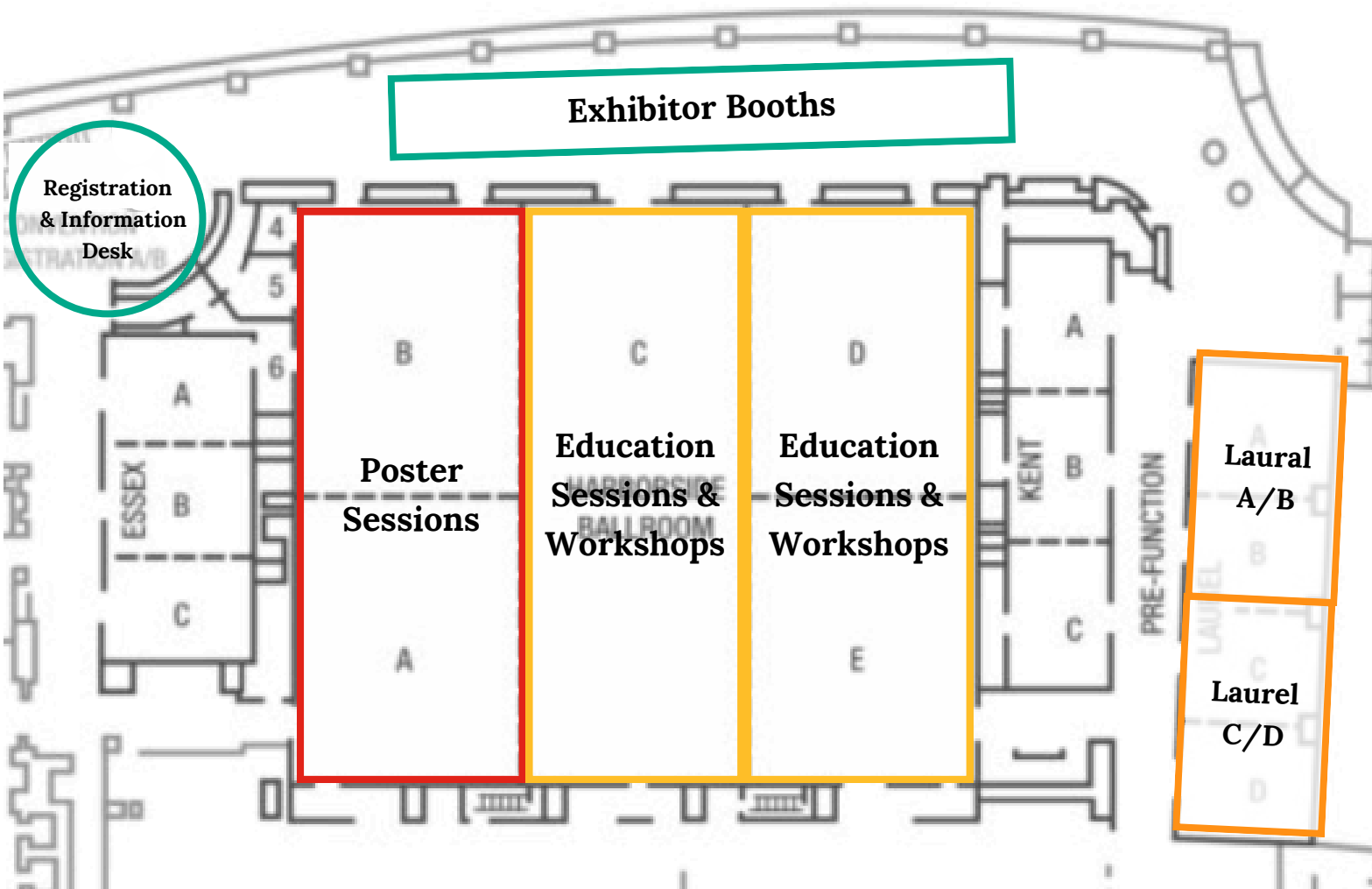
PROGAM AT A GLANCE

	Friday 27 - Sep	Saturday 28 - Sep	Sunday 29 - Sep	Monday 30 - Sep
8:00 AM				
8:15 AM		DIB Committee Breakfast+		
8:30 AM		8:00 - 9:00 AM		
8:45 AM				SPC & LOC Breakfast+
9:00 AM	Pre-Conf Workshop I [^]	Opening Ceremonies 9:00 - 9:30 AM	Local Symposium From Neurons to Neighborhoods: 25 Years Later	8:45 - 9:15 AM
9:15 AM	Pre-Conf Workshop II [^]	Science Of Learning Symposium Nature and Nurture Contributions to Variation in Learning: Insights from Developmental Cognitive Neuroscience	9:00 - 10:15 AM	Flash Talks 9:30 - 10:15 AM
9:30 AM	9:00 AM - 1:00 PM	9:30 - 10:45 AM	Break	Break
9:45 AM		Break	Flash Talks 10:30 - 11:15 AM	Symposium V Developmental Changes in Cortical Excitation- Inhibition Balance through Adolescence and Functional Implications for Cognition 10:30 - 11:45 AM
10:00 AM		Dissertation Award Talk 11:00 - 11:20 AM	Linda Spear Award Talk 11:15 - 11:45 AM	Symposium VI Development of Connectivity from Infancy through Childhood: Typical Trajectories and Risk- Related Alterations 10:30 - 11:45 AM
10:15 AM		Young Investigator Award Talk 11:20 - 11:50 AM		
10:30 AM		Lunch (on your own) 11:50 AM - 1:15 PM	Lunch (on your own) 11:50 AM - 1:15 PM	Lunch (on your own) 11:45 AM -1:15 PM
10:45 AM		Trainee Lunch* (off site) 11:50 AM - 1:15 PM	Affinity Group Meet Ups 11:50 AM - 1:15 PM	DCN Journal Editor Meeting+ 11:45 AM -1:15 PM
11:00 AM	Break	Symposium I How Unpredictable and Stressful Environments Impact Brain Development 1:15 - 2:30 PM	Buttenlocher Award Talk 1:15 - 2:25 PM	Poster Session III 1:15 - 2:45 PM
11:15 AM	Pre-Conf Workshop III [^]	Symposium II Decoding Adolescence: Disentangling Age & Pubertal Effects on the Developing Brain 1:15 - 2:30 PM	Break	Symposium VII Precision Brain Mapping for Developmental Cognitive Neuroscience 2:45 - 4:00 PM
11:30 AM	1:15 PM - 5:00 PM	Break	Diversity Symposium 2:45 - 4:00 PM	Symposium VIII Innovations in Toddler Functional MRI 2:45 - 4:00 PM
11:45 AM		DCN Public Policy Roundtable Thriving in Early Development: Improving Research to Essential Information and Access to Resources 2:45 - 4:00 PM	Break	Closing Ceremony 4:00 - 4:30 PM
12:00 PM		Poster Session I 4:00 - 5:30 PM	Symposium III Cross-Species Approaches to Understanding Adolescent Learning 4:15 - 5:30 PM	
12:15 PM			Symposium IV Characterizing Cortical Brain Development in an African context: Meeting Challenges & Examining Contextually Relevant Environmental Variability 4:15 - 5:30 PM	
12:30 PM			Poster Session II 5:30 - 7:00 PM	
12:45 PM			Communications Committee Meeting+ 7:00 - 8:00 PM	
1:00 PM	Registration /Information Desk Open	Explore Baltimore: Cultural Experience Night* 6:30 - 10:00 PM OFFSITE EVENT at AMERICAN VISIONARY ART MUSEUM		
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[^] Additional Cost * Registration is Required + By Invitation Only

CONGRESS HOTEL MAP

All Flux Congress Events will be held on the 4th Floor Event Center of the Baltimore Marriott Waterfront Hotel



Huttenlocher Lecturer Award

This award is presented to an outstanding researcher in the field of Developmental Cognitive Neuroscience.



Bradley Schlaggar, MD, PhD, Kennedy Krieger Institute

Dr. Bradley L. Schlaggar (ScB Brown University 1986; MD, PhD, Washington University 1994) is the President and CEO of Kennedy Krieger Institute in Baltimore, MD, where he holds the Zanvyl Krieger Faculty Endowed Chair. He is also a Professor of Neurology and Pediatrics at the Johns Hopkins University School of Medicine. Dr. Schlaggar co-directs the NICHD funded Intellectual & Developmental Disabilities Research Center at Kennedy Krieger Institute. He directs the NINDS funded national Child Neurologist Career Development K12 Program, supporting the early career development of physician-scientists.

Prior to moving to Baltimore in August 2018, Dr. Schlaggar was the A. Ernest and Jane G. Stein Professor of Developmental Neurology, and Professor of Neurology, Radiology, Neuroscience, Psychiatry, and Pediatrics, at Washington University in St. Louis School of Medicine. He was co-Director of the Washington University Intellectual & Developmental Disabilities Research Center (2013-2018). From 2014-2018 he served as the Head of Pediatric & Developmental Neurology at Washington University School of Medicine and Neurologist-in-Chief at St. Louis Children's Hospital.

Dr. Schlaggar's research efforts are directed at understanding the development of the brain's functional network architecture in typically and atypically developing children. He has nearly 200 publications and is recognized as a highly cited (i.e., in the top 1 percent) neuroscientist.

He is a co-founder of the Flux Society for Developmental Cognitive Neuroscience and served for 9 years as its Vice-President. He has received numerous awards for research, mentorship, clinical care, community service, and leadership, including the Philip R Dodge Young Investigator Award (2003) from the Child Neurology Society, the Humanitarian Award (2007) from the Tourette Association of America, the Norman Geschwind Award for Behavioral Neurology (2009) from the American Academy of Neurology, the E. Mead Johnson Award (2013) from the Society for Pediatric Research, the Frank Hatch Award (2014) for Outstanding Community Service from the John Merck Foundation, and the Most Admired CEO Award (2022) from The Daily Record (Maryland). In 2021, he was elected to the Association of American Physicians.

Linda Spear Mid-Career Award

The Mid-Career Award in Developmental Cognitive Neuroscience is named in honor of Dr. Linda Spear, a pioneer in developmental neuroscience. This award recognizes outstanding contributions by scientists at the mid-level of their careers.



feifer, PhD, University of Oregon

Jennifer Pfeifer, PhD is a Professor of Psychology at the University of Oregon, where she is PI of the Developmental Social Neuroscience lab and Co-Director of the Center for Translational Neuroscience. Her program of research focuses on the interconnected trajectories of biological and social development throughout adolescence, and their bidirectional transactional relationships with mental health and behavior. She has proposed a conceptual model of how pubertal and neural development launches cascading changes in social processes and adolescent-emergent mental health problems, and more broadly her work has highlighted the importance of understanding social brain development during adolescence. Her laboratory is known for conducting research that prioritizes longitudinal techniques, ecological validity, and transparent and reproducible practices in developmental cognitive neuroscience. Her work has been funded by the National Institute of Mental Health, National Institute of Child Health and Human Development, National Institute on Drug Abuse, National Science Foundation, Oregon Medical Research Foundation, and Hopelab. She is Co-Director of the National Scientific Council on Adolescence, a Fellow of the Association for Psychological Science, and was awarded the Early Career Research Contributions Award by the Society for Research on Child Development.

FLUX AWARDS

Young Investigator Award

The Young Investigator Award in Cognitive Neuroscience recognizes outstanding contributions by scientists early in their careers. Award recipients have been working in the area of cognitive neuroscience for no more than 10 years involved in active independent research.



Rachel Romeo, University of Maryland College Park

Rachel Romeo, PhD, CCC-SLP is an Assistant Professor at the University of Maryland College Park, in the departments of Human Development & Quantitative Methodology, Hearing & Speech Sciences, and the program in Neuroscience & Cognitive Science. She is also a licensed Speech Language Pathologist specializing in pediatric language, literacy, and learning differences. Dr. Romeo is interested in how children's early experiences (both favorable and adverse) interact to influence their brain and cognitive development, as well as their future learning. At UMD, she directs the Language, Experience, and Development (LEAD), which integrates methods from psychology, neuroscience, education, and clinical sciences to investigate how developing brains adapt to their varying environments and lead to unique developmental paths, using rigorous, inclusive, and community-engaged methods. A primary focus is to translate this work into the "real world" to inform educational, clinical, and social policy, and to ultimately reduce inequities in child development.

Flux Dissertation Award

The Flux Dissertation Award recognizes an exceptional, rigorous, and meticulous dissertation by one of the Congress' trainee members.



Felicia Hardi, PhD, Yale University

Dr. Felicia Hardi recently completed her PhD at the University of Michigan under the primary mentorship of Dr. Christopher Monk. She is an incoming Wu Tsai Institute Postdoctoral Fellow at Yale University, where she will be mentored by Drs. Dylan Gee and Elizabeth Goldfarb. Her research focuses on understanding how the brain learns and develops in stressful environments, and its implications for emotional health. In her dissertation work, she examined the longitudinal associations of adversity with neural structure and function in a cohort of youth followed from birth through adolescence. Before graduate school, she was a research coordinator at Columbia University and worked as a social worker with families across New York City. She received her B.A. in Psychology from the University of Michigan and her M.S.W. from New York University.



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LIEBER INSTITUTE *for*
BRAIN DEVELOPMENT

PROGRAM CONTENTS

About the Flux Congress

The aim of the congress is to provide a forum for developmental cognitive neuroscientists to share their findings on the development of brain processes that support cognition and motivation from an integrative neuroscience perspective. Thus, it provides an opportunity for scientists in the field to expand their knowledge base, and also be better informed of translational approaches. The Flux Society was launched in June 2014, and has seen growth in its membership each year. To learn more about the Flux Society, please visit www.fluxsociety.org.

History

Founded in 2013, the Flux Society was created to foster a collaborative community for scientists focused on the development of brain processes supporting cognition and motivation. The inaugural Flux Congress in Pittsburgh, Pennsylvania, established the annual event as a cornerstone for presenting cutting-edge research and networking.

Over the years, Flux has expanded its initiatives to include mentorship programs, outreach activities, and awards recognizing outstanding contributions to the field. Committed to diversity, inclusion, and belonging, the society continues to support its members and advance developmental cognitive neuroscience through innovative research and vibrant community engagement.

Purpose

The Flux Society's purpose is to advance the understanding of human brain development by serving as a forum for professional and student scientists, physicians, and educators to:

- foster/provide a scientific venue that promotes integration across levels of investigation
- exchange information and educate the next generation of developmental cognitive neuroscience researchers;
- make widely available (perhaps “disseminate” scientific research findings on brain development;
- encourage translational research to clinical populations;
- promote public information by discussing implications on the fields of education, health, juvenile law, parenting, and mental health, and
- encourage further progress in the field of developmental cognitive neuroscience.

FLUX LEADERSHIP

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Nim Tottenham, Director at Large
Barbara Braams, Director at Large
Jessia Cohen, Director at Large
Phoebe Thomson, Training Rep
Niamh MacSweeney, Training Rep

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Chandan Vaidya, Co-Chair
Guinevere Eden
Nathan Fox
William Gaillard
Tracy Riggins
Gabriela Rosenblau
Karl Steiner
Catherine Stoodley
Heather Volk
Daniel Weinberger

Awards Committee

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Beatriz Luna
Nim Tottenham
Jessica Cohen

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Marjolein Barendse
Yana Fandakova
Wei Gao
Arianna Gard
Jamie Hanson
Tzipi Horowitz-Kraus
Andrew Lynn
Christopher Monk
Stewart Motofsky
Assaf Oshri
Giorgia Picci
Rachel Romeo
Maya Rosen
Sara Sanchez-Alonso
Sarah Short
Suzanne van de Groep

Communication Committee

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Barbara Braams
Kahini Mehta
Clare McCann
Christina Lutz
Andrew Lynn
Arielle S. Keller
Matt Mattoni
Gavkhar Abdurikhmonova

FLUX LEADERSHIP

Flux Diversity, Inclusion & Belonging Committee

Stefanie Bodison
Jenn Pfeifer
Lucina Uddin
Carlos Cardenas-Iniguez
Julia Moser
Kayla Green
Charles Geier
Ethan McCormick
Marjolein Barendse
Maya Rosen
Marybel Robledo Gonzalez
Monica Ellwood-Lowe
Rachel Romeo
Arielle Keller
Bernice Anaya
Artha Gillia
Maira Karan
Shefali Rai
Valerie Sydnor
Suzanna Perkins
Andrew Lynn



Flux Trainee Committee

Niamh MacSweeney, 2024 Co-Chair
Phoebe Thomson, 2024 Co-Chair
Felicia Hardi, Member
Lu (Lucy) Zhang, Member
Michelle Shipkova, Member
Courtney Gilchrist, Member
Yara Toenders, Member
Plamina Dimanova, Member
Amanda Boyes, Member
Jin Wang, Member
Damion Demeter, Member
Simone Dobbelaar, Member
Jessica Cohen, Board Member
Nim Totteham, Board Member

Flux Congress & Society Management

Laura Reynolds, Meetings Manager
Rebecca Shannon, Content Manager
Melanie Friebe, Member Services Manager
Kent Prickett, Executive Director
Stephanie Sartin, Director of Association Services

9:00 AM - 1:00 PM

Harborside Ballroom C

Sponsored by:



9:00 AM - 1:00 PM

Harborside Ballroom DE

Sponsored by:

Stanford Educational Neuroscience Initiative

1:15 PM - 5:00 PM

Harborside Ballroom C

PRE-CONFERENCE WORKSHOP I

Developing a Toolkit for Studying the Interaction between Executive Function (EF) and Learning Disabilities

Explore how executive functions relate to learning disabilities like dyslexia, dyscalculia, and ADHD in this workshop. We'll cover cognitive testing, neurobiological correlations, and interventions that enhance academic skills, while discussing future directions and funding opportunities in this field.

PRESENTERS: Tzipi Horowitz-Kraus, PhD, Kennedy Krieger Institute
Jessica Church, PhD, University of Texas at Austin

PRE-CONFERENCE WORKSHOP II

Beyond SES: Novel resources for placing Adolescent Brain and Cognitive Development (ABCD) investigations in the context of inequities in school quality, learning opportunities, academic achievement outcomes, and neighborhood characteristics

Explore how new resources are expanding the ABCD study by integrating crucial context on educational inequities, school quality, and neighborhood characteristics. This workshop will highlight innovative methods for examining how these factors impact academic achievement and lifelong health outcomes.

PRESENTER: Bruce Mccandliss, PhD, Stanford University

PRE-CONFERENCE WORKSHOP III

A New User's Guide to the HEALthy Brain Child Development (HBCD) Study

Join us for a detailed introduction to the HBCD Study, which tracks 7,500 infants over a decade with comprehensive data on brain imaging, genetics, and development. This workshop will equip researchers with essential insights and tools to effectively navigate and utilize the study's rich dataset upon its release in January 2025.

PRESENTER: Wesley Thompson, PhD, Laureate Institute for Brain Research

2:30 PM - 7:00 PM

Harborside Reg AB

4:00 PM - 7:00 PM

Laurel AB

5:30 PM - 6:20 PM

Harborside Ballroom DE

6:30 PM - 7:20 PM

Harborside Ballroom DE

1:15 PM - 5:00 PM

Laurel CD

7:30 PM - 8:30 PM

Laurel AB

Registration & Congress Information Desk Open

Flux Board of Directors Meeting

FLUX TRAINEE WORKSHOP I

Career Perspectives Panel

MODERATOR: Michelle Shipkova, University of North Carolina - Chapel Hill

PANELISTS: Elvisha Dhamala, Feinstein Institutes for Medical Research

Laura Thomas, National Institute of Mental Health

Gagan S. Wig, The University of Texas Southwest Medical Center

FLUX TRAINEE WORKSHOP II

Grant Writing Panel

MODERATOR: Jim Wang, University of California - Los Angeles

PANELISTS: Sarah Tashjian, University of Melbourne

Jamie Hanson, University of Pittsburgh

Ashley Smith, National Institute of Mental Health

Natalie Hiromi Brito, New York University

Flux Board of Directors & Huttenlocher Award Dinner

Grant Writing Sub-Group Meeting

8:00 AM - 5:30 PM

Harborside Reg AB

8:00 AM - 8:45 AM

Location TBD

9:00 AM - 9:30 AM

Harborside Ballroom C

9:30 AM - 10:45 AM

Harborside Ballroom C

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FOUNDATION

Our Promise to Youth

10:45 AM - 11:00 AM

11:00 AM - 11:20 AM

Harborside Ballroom C

Registration, Exhibitors & Congress information Desk Open

Diversity, Inclusion, and Belonging Committee Breakfast

OPENING CEREMONIES

SPEAKER: Eveline Crone, Flux President

SCIENCE OF LEARNING SYMPOSIA

Nature and Nurture Contributions to Variation in Learning: Insights from Developmental Cognitive Neuroscience

Discover how socioeconomic disadvantage influences neural development and mental health through chronic stress in this engaging workshop. We will explore cutting-edge research on how socioeconomic factors impact cognitive and emotional control, and discuss strategies for supporting affected children and families.

CHAIR: Tzipi Horowitz-Kraus, Technion and Kennedy Krieger Institute

SPEAKERS: Emily Merz, Colorado State University

Socioeconomic Disadvantage, Stress, and the Developing Brain

Nicholas Judd, Donders Institute

How Early Life Education Impacts Long-Term Brain Structure

Tomas Paus, University of Montreal

Population Neuroscience of the Growing Brain

Ece Demir-Lira, University of Iowa

Interactive Relations between Children's Home Math Environment and the Neural Basis of Numerical Processing

Break

DISSERTATION AWARD TALK 2024

Heterogeneity in the Neural Mechanisms of Adversity: Implications for Developmental Risk and Resilience

In this special session we will explore the varying impacts of adversity on mental health in this workshop, which delves into how individual differences shape resilience and risk. Learn about cutting-edge research from a longitudinal study examining the neural mechanisms linking adverse experiences to mental health outcomes.

PRESENTER Felicia Hardi, Yale University

11:20 AM - 11:50 AM

Harborside Ballroom C

Sponsored by:



11:50 AM - 1:15 PM

11:50 AM - 1:15 PM

Lebanese Taverna

1:15 PM - 2:30 PM

Harborside Ballroom C

YOUNG INVESTIGATOR AWARD TALK 2024

Deficit, Difference, or Diversity? My journey investigating children's language, experience, and development

Our secondary session will explore the complexities of children's language development and the biological mechanisms behind individual differences in early communicative skills. This talk will share insights from my research journey, highlighting the impact of these differences on education, clinical practice, and social policy.

PRESENTER Rachel Romeo, University of Maryland College Park

Lunch (On Your Own)

TRAINEE COMMITTEE LUNCH (TICKETED EVENT)

SYMPOSIUM I

How Unpredictable and Stressful Environments Impact Brain Development

Explore how unpredictable and stressful environments impact brain development in this workshop, focusing on the role of dynamic parental signals. We will present findings from both animal models and human studies, revealing how fragmented and unpredictable maternal behaviors affect brain maturation and cognitive outcomes.

CHAIR: Jamie Hanson, University of Pittsburgh

MODERATOR: Jamie Hanson, University of Pittsburgh

SPEAKERS: Tallie Baram, University of California, Irvine

Dynamic Patterns of Parental Signals Shape Brain Circuit Maturation:

Enduring Effects of Unpredictable Parental and Environmental Signals in Children, and Mechanistic Insights from Experimental Animals

Felicia Hardi, Yale University

Household Instability in Childhood and Its Long-Term Links to Brain Development and Mental Health

Erica Glasper, Ohio State University

How Unpredictable and Stressful Environments Impact Brain Development

Fiia Takio, University of Turku

The Effects of Unpredictability of Maternal Sensory Signals on Child's Cognitive Self-Regulation: Insights from the Finnbrain Birth Cohort Study

1:15 PM - 2:30 PM

Harborside Ballroom DE

SYMPOSIUM II

Decoding Adolescence: Disentangling Age and Pubertal Effects on the Developing Brain

Dive into the complexities of adolescent brain development by exploring the distinct effects of age and puberty in this symposium. Featuring a series of talks and discussions, we will examine how puberty and age independently influence brain maturation and mental health, including insights from longitudinal studies and animal models.

CHAIR: Nandita Vijayakumar, Deakin University

MODERATOR: Jennifer Pfeifer, University of Oregon

SPEAKERS: Nandita Vijayakumar, Deakin University

Understanding the Effects of Puberty on the Developing Brain: Why Our Operationalization of Pubertal Timing Matters.

Christopher Machle, University of Oregon

Tracking White Matter Development by Age and Puberty: Findings from a 5-Wave Longitudinal Study of Adolescent Girls

Erica Glasper, Ohio State University

How Unpredictable and Stressful Environments Impact Brain Development

Mathew Paul, The University At Buffalo - SUNY

Using Animal Models to Dissociate Puberty from Age in Adolescent Research

2:30 PM - 2:45 PM

Break

2:45 PM - 4:00 PM

Harborside Ballroom C

DCN PUBLIC POLICY ROUND TABLE

Thriving in Early Development: Improving Research to Essential Information and Access to Resources

Discover how early caregiving and maternal stress influence infant brain and behavior in this insightful workshop. We will explore the impact of both immediate caregiver interactions and broader social policies, like paid leave, on early neurocognitive development and offer strategies to enhance research and access to essential resources.

CO-CHAIR: Sarah Short, University of Wisconsin-Madison

CO-CHAIR: Maya Rosen, Smith College

MODERATOR: Andrew Lynn, University of Louisville

Arianna Gard, University of Maryland, College Park

SPEAKERS: Natalie Brito, New York University

Investigating the Role of Maternal Stress Physiology on Infant

Haley Gibbs, American Progress

Grounding Federal Early Childhood Policy in the Principles of Human Development

Emily Murphy, UC Law San Francisco

Abstract Title Forthcoming

4:00 PM - 5:30 PM
Harborside Ballroom AB

Sponsored by:



6:30 PM - 10:00 PM
American Visionary Art Museum

Poster Session I

Explore Baltimore: Cultural Experience Night (Ticketed Event)

Explore Baltimore: Culture Experience Night



THE SOCIETY FOR
DEVELOPMENTAL
COGNITIVE
NEUROSCIENCE

WHERE: American Visionary Art Museum -
Jim Rouse Visionary Center
800 Key Hwy, Baltimore 21230

WHEN: 9/28/2024, 6:30 PM - 10:00 PM

INCLUDES: Dinner, 1 Drink Ticket, Cash Bar,
Networking, Music, and limited
access to the AVAM exhibits

**TRANSPORTATION WILL
BE PROVIDED TO/FROM
AVAM. FIRST BUSES WILL
LEAVE MARRIOTT AROUND
5:45 PM.**

Limited tickets are still available at the Flux Registration Desk

8:00 AM - 7:00 PM

Harborside Reg AB

9:00 AM - 10:15 AM

Harborside Ballroom C

Sponsored by:

GEORGETOWN
UNIVERSITY

10:15 AM - 10:30 AM

10:30 AM - 11:15 AM

Harborside Ballroom C

11:15 AM - 11:45 AM

Harborside Ballroom C

Registration, Exhibitors & Congress information Desk Open

LOCAL SYMPOSIUM

From Neurons to Neighborhoods: Twenty-Five Years Later

On the eve of the 25th anniversary of the National Academies of Sciences' commissioned volume "Neurons to Neighborhoods: The science of early childhood development", this symposium will celebrate its transformative insights for an integrative research agenda for developmental cognitive neuroscience. The speakers will highlight advances in understanding factors promoting risk and resilience for early brain development with data from animal models and humans. The symposium will end with a discussion of the major advances in our understanding of the interactive factors shaping the development of brain and behavior and challenges that remain in all children attaining positive developmental outcomes.

CHAIR: Chandan Vaidya, Georgetown University

MODERATOR: Nathan Fox, University of Maryland

SPEAKERS: Arianna Gard, University of Maryland, College Park

Studying risk and resilience to ecological adversity: a strengths-based developmental neuroscience approach

Autumn Ivy, Kennedy Krieger Institute

Neurobiological mechanisms of early life stress and interventions: lessons from preclinical models

Heather Volk, Johns Hopkins

Incorporating Measures of the Environment in Studies of Early Brain Development

Break

Flash Talk Presentations

LINDA SPEAR MID-CAREER AWARD TALK 2024

Transactional Systems and Transparent Science: A Journey in Developmental Social Neuroscience

Join us to explore cutting-edge insights in developmental social neuroscience, where we examine how adolescent brain development, social interactions, and internalizing problems are interconnected through a dynamic, transactional lens. This conference will also highlight the significance of transparent and inclusive scientific practices based on real-world advocacy and implementation experiences.

SPEAKER: Jennifer Pfeifer, University of Oregon

11:45 AM - 1:15 PM

11:45 AM - 1:15 PM

Location TBD

1:15 PM - 2:25 PM

Harborside Ballroom C

Sponsored by:



Children's National.

2:25 PM - 2:45 PM

2:45 PM - 4:00 PM

Harborside Ballroom C

4:00 PM - 4:15 PM

Lunch (On Your Own)

Affinity Group Meet Ups

HUTTENLOCHER AWARD TALK 2024

A Career in Neuroplasticity and Neuroplasticity in a Career

Dr. Schlaggar will share his career journey as a neurobiologist, academic physician-scientist, and nonprofit executive, describing how deep interests, plans, life events, and serendipity have interacted along the way.

SPEAKER: Bradley Schlaggar, Kennedy Krieger Institute

Break

DIVERSITY SYMPOSIUM

Dis/Ability, Accessibility, and Inclusion: Shifting the focus from individuals to systems

This symposia explores how shifting the focus from individuals to systems can better address dis/ability, accessibility, and inclusion. By examining the systemic barriers that marginalize communities, particularly within cognitive neuroscience, this discussion highlights the need for structural change. Participants will gain insights into rethinking inclusion efforts to foster true equity.

CHAIR: Monica E. Ellwood-Lowe, University of Pennsylvania

MODERATOR: Maira Karan, Stanford University

PANELISTS: Scott Hatley, Executive Director - Incight

Leveraging Obstacles - Awakening Opportunities

Inge-Marie Eigsti, University of Connecticut

Systematic exclusion: Dis/abilities and racial and ethnic minorities in cognitive neuroscience

Monica E. Ellwood-Lowe, University of Pennsylvania

An inside look at dis/ability and opportunities within Flux

Break

4:15 PM - 5:30 PM

Harborside Ballroom C

SYMPOSIUM III

Cross-Species Approaches to Understanding Adolescent Learning

Explore how adolescent learning evolves across species in this comprehensive symposium, highlighting both human and animal studies. Presentations will cover how brain development influences learning and goal-directed behavior, with insights into reinforcement learning, threat learning, and rule learning, followed by a discussion on integrating these findings across species for a deeper understanding of adolescence.

CHAIR: Catherine Insel, Columbia University

MODERATOR: Catherine Insel, Columbia University

SPEAKERS: Catherine Insel, Columbia University

Adolescent Neurodevelopment Supports the Emergence of Value-Based Generalization

Juliet Davidow, Northeastern University

Neurocognitive Adaptivity in Adolescent Goal-Directed Learning.

Laura DeNardo, University of California Los Angeles

Developmentally Distinct Architectures in Top-Down Circuits

Linda Wilbrecht, University of California Berkeley

Frontal Cortex Microcircuit Development and the Search for an Adolescent Sensitive Period

4:15 PM - 5:30 PM

Harborside Ballroom DE

SYMPOSIUM IV

Characterizing Cortical Brain Development in an African Context: Meeting Challenges & Examining Contextually Relevant Environmental Variability

Discover how early brain development unfolds in an African context with insights from the Khula study, which examines the impact of environmental factors on infants' cognitive and social growth. This symposium will explore challenges in EEG data collection, the effects of caregiver predictability, and the role of gut microbiome variability in shaping functional brain development in South African infants.

CHAIR: Dima Amso, Columbia University

MODERATOR: Dima Amso, Columbia University

SPEAKERS: Nwabisa Mlandu, University of Cape Town

Evaluating a Novel High-Density EEG Sensor Net Structure for Improving Inclusivity in Infants with Curly or Tightly Coiled Hair

Tess Allegra Forest, University of Toronto

Characterizing the Emergence of Phase-Amplitude Coupling in the First Year of Life to Understand Attention in the Infant Brain

Guilherme Fahur Bottino, Wellesley College

Charting Trajectories of Gut Microbiome, Cognition and Behavior Development

5:30 PM - 7:00 PM

Harborside Ballroom AB

Sponsored by:



LIEBER INSTITUTE *for*
BRAIN DEVELOPMENT

Poster Session II

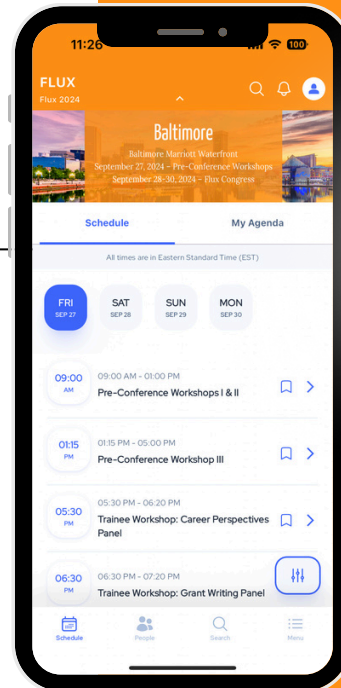
7:00 PM - 8:00 PM

Laurel AB

Communications Committee Meeting

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SEARCH "FLUX CONFERENCE"



8:00 AM - 4:00 PM

Harborside Reg AB

8:45 AM - 9:15 PM

Apropos (Hotel
Restaurant)

9:30 AM - 10:15 AM

Harborside Ballroom C

10:30 AM - 11:45 AM

Harborside Ballroom C

Registration, Exhibitors & Congress Information Desk Open

Scientific Program Committee & Local Organizing Committee
Breakfast

Flash Talk Presentations

SYMPOSIUM V

Developmental Changes in Cortical Excitation-Inhibition Balance through Adolescence and Functional Implications for Cognition

Join us to explore how changes in cortical excitation-inhibition balance during adolescence impact cognitive development and neural dynamics. This symposium will present cutting-edge research using both human and animal models to investigate the triggers, role of neuromodulators, and functional implications of these developmental shifts, highlighting new methodologies and interdisciplinary insights.

CHAIR: Andrew Westbrook, Rutgers University

MODERATOR: Finnegan Calabro, University of Pittsburgh

SPEAKERS: Andrew Westbrook, Rutgers University

Brain Criticality Emerges with Developmental Shifts in Excitation-Inhibition Balance, Setting the Stage for Cognitive Control in Adulthood

Adriana Caballero, University of Illinois at Chicago

Heuristic Manipulation of the E-I Ratio in the Prefrontal Cortex or Ventral Hippocampus during Adolescence Leads to Distinct Behavioral Alterations in Adulthood

Bart Larsen, University of Minnesota

Evidence for a Reduction in the Cortical Excitation-Inhibition Ratio during Adolescence Derived from fMRI Data

Ashley Parr, University of Pittsburgh A Role for Dopamine-Related Neurophysiology in the Maturation of Prefrontal Cortex Glutamate/GABA Balance during Adolescence

10:30 AM - 11:45 AM
Harborside Ballroom DE

SYMPOSIUM VI

Development of Connectivity from Infancy through Childhood: Typical Trajectories and Risk-Related Alterations

Explore how early brain connectivity develops from infancy through childhood in this informative workshop, focusing on typical growth trajectories and risk-related alterations. We will review how factors like prenatal drug exposure and maternal depression impact functional network development and discuss strategies to optimize interventions and improve developmental outcomes.

CHAIR: **Yana Fandakova**, University of Trier

SPEAKERS: **Speakers: Wei Goa**, Cedars-Sinai Medical Center

Functional Network Growth during Infancy and Beyond: Typical Trajectories, Risk-Related Alterations, and Implications for Outcomes

Zeynep Saygin, Ohio State University

Connectivity Scaffolds for Mental Function

Jessica Cohen, University of North Carolina at Chapel Hill

Disrupted Task-Induced Reconfiguration during Cognitive Control in Children with ADHD

Jerod Rasmussen, University of California, Irvine

Investigating Hypothalamic Connectivity in Early Development: Insights and Implications

11:45 AM - 1:15 PM

Lunch (On Your Own)

11:45 AM - 1:15 PM
Laurel CD

DCN Journal Editor Meeting & Lunch (By Invite Only)

1:15 PM - 2:45 PM
Harborside Ballroom AB

Poster Session III



2:45 PM - 4:00 PM

Harborside Ballroom C

SYMPOSIUM VII

Precision Brain Mapping for Developmental Cognitive Neuroscience

Dive into the future of neuroimaging with our symposium on precision brain mapping, which challenges the traditional “one-size-fits-all” approach by highlighting how individual variations in brain structure and function impact developmental cognitive research. Explore how new techniques can create personalized brain maps, improving our understanding of cognitive development across infancy, childhood, and adolescence.

CHAIR: Arielle Keller, University of Pennsylvania

MODERATOR: Damien Fair, University of Minnesota

SPEAKERS: Arielle Keller, University of Pennsylvania

Personalized Functional Brain Network Topography Reflects Childhood Environments and Cognition

Deanna Greene, University of California, San Diego

Inter-Individual Variability of Functional Brain Network Organization in Childhood Revealed by Precision Functional Mapping

Julia Moser, University of Minnesota

Precision Functional Imaging in Infants Using Multi-Echo fMRI at 7T

Charles Lynch, Weill Cornell Medicine

Precision Mapping of Functional Brain Networks in Individuals with Depression

2:45 PM - 4:00 PM

Harborside Ballroom DE

SYMPOSIUM VIII

Innovations in Toddler Functional MRI

Discover the latest advancements in toddler fMRI at our symposium, which addresses the challenges and innovations in studying brain function during this critical developmental period. Featuring pioneering methods and age-appropriate paradigms, this workshop will showcase how cutting-edge fMRI techniques can enhance our understanding of cognitive and sensory development in toddlers, with implications for early diagnosis and clinical practice.

CHAIR: Halie Olson, Massachusetts Institute of Technology

MODERATOR: Halie Olson, Massachusetts Institute of Technology

SPEAKERS: Halie Olson, Massachusetts Institute of Technology

Using fMRI to Study Language Comprehension in Awake Toddlers

Catherine Lebel, University of Calgary

Passive Viewing fMRI Data in Awake 2-3 Year olds: Methods and Insights into Early Functional Brain Development

Annika Linke, San Diego State University

Using fMRI to Study Auditory Processing and Language Development in Toddlers and Preschoolers with Autism

Tomoki Arichi, King's College London

Immersive Virtual Reality for Interactive Toddler fMRI Studies

4:00 PM - 4:30 PM

Harborside Ballroom C

Closing Ceremonies

CONGRESS FLASH TALK PRESENTATIONS

SUNDAY, SEPTEMBER 29TH



CATHERINE DEMERS

Impact of Interpersonal Therapy During Pregnancy on Infant Subcortical Brain Development: A Randomized Clinical Trial

JAKE SON

Attention Problems and Hyperactivity Differentially Impact Insula and Temporoparietal Junction Activity in Healthy Children and Adolescents



THITI PREMRUDEEPRREECHACHARN

Investigating the Role of Brain Iron in the Development of Psychosis Spectrum Symptoms Using Quantitative Susceptibility Mapping MRI

MAYA YABLONSKI

Fast and Precise Quantitative Measures of White Matter Development With Magnetic Resonance Fingerprinting



SIMONE DOBBELAAR

Neural Correlates of Vicarious Reward Processing in Children With Prolonged Peer Victimization Experiences

TERESA VARGAS

Neighborhood Dimensions, Psychopathology, and Possible Underlying Mechanisms



CONGRESS FLASH TALK PRESENTATIONS

MONDAY, SEPTEMBER 30TH



ALICJA MONAGHAN

Canonical Neurodevelopmental Trajectories of Structural and Functional Manifolds

CONNOR HAUGHEY

Early Life Unpredictability Predicts Deficits in Reward Learning in Young Children



JORDAN FOSTER

Early-Life Stress, Hippocampal-Cortical Functional Connectivity, and Changes in Episodic Memory Performance as Predictors of Mental Health Symptom Trajectories in Youth

BRENDEN TERVO-CLEMMENS

Brain-Wide Association Studies of Lifespan Mental Health Across Functional Task States



GOLIA SHAFIEI

Reproducible Brain Charts: An Open Data Resource for Mapping the Developing Brain and Mental Health

URSULA TOOLEY

Prenatal Environment is Associated With the Pace of Cortical Network Development Over the First Three Years of Life



SAVE THE DATE

 2025 FLUX CONGRESS

SEPTEMBER 4 - SEPTEMBER 6, 2025

PRE-CONFERENCE WORKSHOPS ON SEPTEMBER 3RD

RADISSON BLU ROYAL
HOTEL & CONVENTION CENTRE
DUBLIN, IRELAND



flux



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