Sharing, Using and Re-Using Data in Social Neuroscience

Gianluca Esposito, PhD
Social & Affective Neuroscience Lab, Nanyang Technological University, Singapore
Neural Mechanisms of Social Interactions

METHODS: Multi-level Approach
Challenges

- Costs
- Time
- Set-up Protocols
- Train Collaborators
- Analyze (prepare/edit scripts)
- Check Progresses
- Convince Editors and Reviewers
- Generalizability of the findings
- Give Visibility
My other hat – Editorial Roles

Editor in-Chief
Senior Editor
Associate Editor

Journals:
Behavioral Brain Research
Research in Developmental Disabilities
Infant Behavior and Development
Parenting: Science & Practice

Common Challenge: Checking someone else’s work
A possible way out: Sharing, Using and Re-using data

Three key questions – and my personal view

1. Why
2. When
3. How
1. Why

My PhD Journey (2003-2006): Using retrospective videos to study early signs of Autism before the diagnosis

Sample from 3 Clinical Centers = 100+ Children, 60 hours of video recordings

Three years of extensive traveling across sites & enormous costs

VIDEOS NOT AVAILABLE ANYMORE! DATA from Italy only!
An alternative PhD Journey (2019)

Video as data and documentation

NEW FEATURE!
Demographics upload

Now share your volume description & keep your data private.

Save Costs and Time; Results have more validity, etc
Studying Child Mortality in LMIC

Over two decades, more than 300 Multiple Indicator Cluster Surveys have been carried out in more than 100 countries, generating data on key indicators on the well-being of children and women, and helping shape policies for the improvement of their lives.

23 Years

116 Countries

322 Surveys
One more reason: the citation advantage

531,889 articles
350 open access journals: published (PLoS) and BioMed Central (BMC) 1997 - 2018

Articles linked directly to source data sets received 25% more citations on average

Colavizza et al., 2019
arXiv:1907.02565
https://zenodo.org/record/3268810#.XVI0eS2B1E4
Physiological responses to dyadic interactions are influenced by neurotypical adults' levels of autistic and empathy traits

Anna Truzzi a, Peipei Setoh b, Kazuyuki Shinohara c, Gianluca Esposito a,b,*
Taking care of business

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2. When?

- Submitting the Paper
- Writing the Paper
- Conduct
- Plan
- Disseminate

What I think is Ideal
What I currently do
Overcome the “I-am-going-to-be-scooped” fear

- Pre-Register your ideas
- Plan your sharing

PLAN

CONDUCT

DISSEMINATE

Share with your Restricted Team
Share with your Research Team
Share with the world (some contents available on request)
Share Everything with the world
3. How?

Social and Affective Neuroscience (Nanyang Technological University)

DR-NTU (Data) > School of Social Sciences (SSS) > Gianluca Esposito > Social and Affective Neuroscience

Search this dataverse...

Dataverses (1)
Datasets (12)
Files (286)

Dataverse Category
Research Project (1)

Publication Year
2019 (6)
2018 (3)

Publication Status
Published (9)
Draft (4)
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Author Name
Esposito, Gianluca (11)
Gabrieli, Giulio (6)

Replication Data for: Strangers, friends, and lovers show specific physiological synchronies in different emotional contexts

Esposito, Gianluca; Gabrieli, Giulio; Bizzego, Andrea, 2019, "Replication Data for: Strangers, friends, and lovers show specific physiological synchronies in different emotional contexts", https://doi.org/10.21975/N9/O9ADTR, DR-NTU (Data), DRAFT VERSION

This repository contains replication data for the study: "Strangers, friends, and lovers show specific physiological synchronies in different emotional contexts."

Replication Data for: Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study

Esposito, Gianluca; Gabrieli, Giulio; Azhari, Atiqah; Bizzego, Andrea, 2019, "Replication Data for: Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study", https://doi.org/10.21975/N9/CTR0YX, DR-NTU (Data), V1, UNF:6:9wyuoAkue/7n2BTu2jNaA== [fileUNF]

Synchrony refers to the coordinated interplay of behavioural and physiological signals that reflect the bi-directional attunement of each partner to the other's emotional state. In mother-child relationships, a synchronous pattern of interaction indicates parental sensitivity...

Effects of Baby Schema and Mere Exposure on Explicit and Implicit Face Processing

Esposito, Gianluca; Gabrieli, Giulio; Venturoso, Leonardo, 2019, "Effects of Baby Schema and Mere Exposure on Explicit and Implicit..."
Replication Data for: Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study

Esposito, Gianluca; Gabrieli, Giulio; Azhari, Atiqah; Bizzego, Andrea, 2019, "Replication Data for: Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study", https://doi.org/10.21975/N9/CTR0YX, DR-NTU (Data), V1, UNF:6:9wyciAkue/7nn2BTu2jRnA== [fileUNF]

Description

Synchrony refers to the coordinated interplay of behavioural and physiological signals that reflect the bidirectional attunement of each partner to the other's emotional state. In mother-child relationships, a synchronous pattern of interaction indicates parental sensitivity. Parenting stress has been shown to undermine mother-child behavioural synchrony. However, it has yet to be discerned whether parenting stress affects brain-to-brain synchrony during everyday joint activities. Here, we show that greater parenting stress is associated with less brain-to-brain synchrony in the medial left cluster of the prefrontal cortex when mother and child engage in a typical dyadic task of watching animation videos together. This region overlaps with the inferior frontal gyrus, the frontal eye field, and the dorsolateral prefrontal cortex, which are implicated in inference of mental states and social cognition. Our result demonstrates the adverse effect of parenting stress on mother-child emotional attunement to each other that is evident at a brain-to-brain level. Mother-child brain-to-brain asynchrony may underlie the robust association between parenting stress and poor dyadic co-regulation. We anticipate our study to form the foundation for future investigation into the mechanism by which parenting stress impairs the mother-child relationship.

Subject

Social Sciences

Keyword

Parenting Stress, Synchrony, Mother-Child Interaction, NIRS

Related Publication

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Taking care of business

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Take Home Message

• Sharing, Using and Re-using data is useful during the whole research process

• It makes your Science Stronger

• Allows you to try NEW things
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Thank you for your time

Gianluca Esposito, PhD
Social & Affective Neuroscience Lab, Nanyang Technological University, Singapore