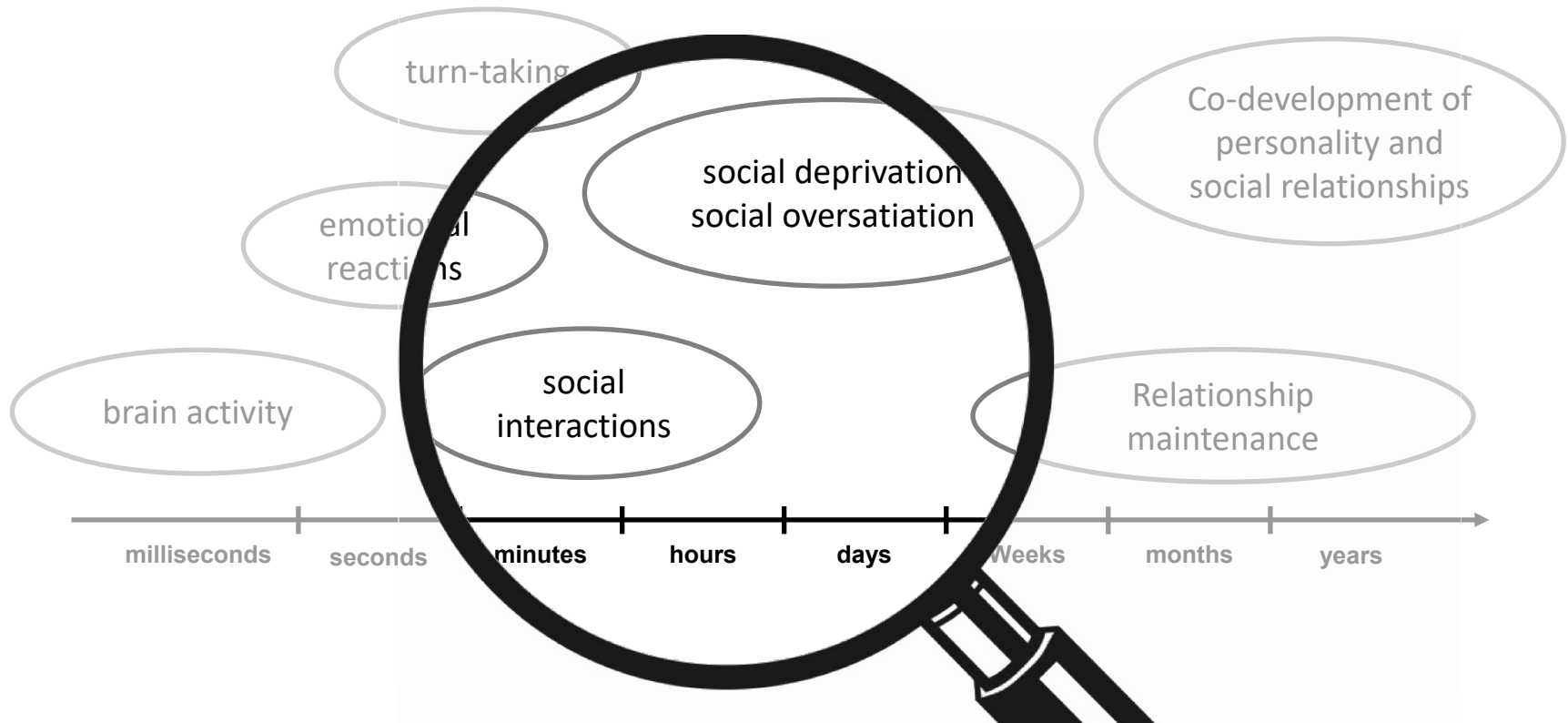


Contexts Matters for Social Interactions: The Role of Social Networks and Social Density for Dynamic Regulation of Face-to-face Interactions in Daily Life.

Yannick Roos, Michael D. Krämer, David Richter, & Cornelia Wrzus

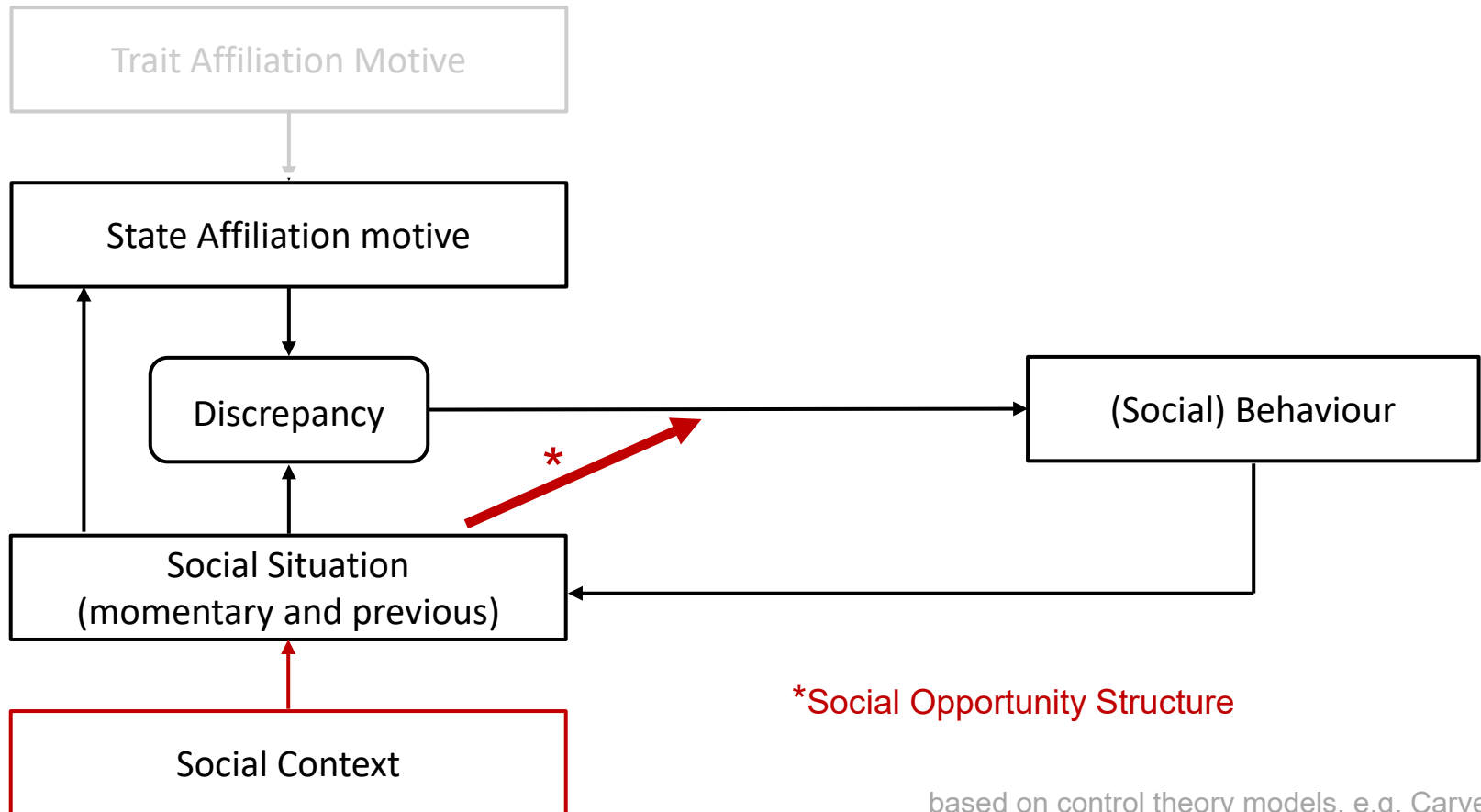
20.06.2023

Time Horizons of Social Relationships



Inspired by Fig 1 in Revelle & Wilt (2021)

Working Model of Social Interactions



*Social Opportunity Structure

based on control theory models, e.g. Carver & Scheier (1982); Hall (2017); Sheldon (2011)

Hypotheses



H1: People with larger social networks transition faster from solitude to social interactions.



H2: People living in high-density environments transition faster from solitude to social interactions but transition slower from interactions to solitude.

Study 1 (diverse convenience sample)

- 307 participants (51% female, $M_{\text{age}} = 39.44$, $SD_{\text{age}} = 14.14$)
- 2 days (between 9:00 a.m. and 9:00 p.m.)
- Up to 10 experience sampling questionnaires



Experience
Sampling



Mobile
Sensing

Study 2 (SOEP-IS subsample)

- 388 participants (50% female, $M_{\text{age}} = 48.89$, $SD_{\text{age}} = 15.73$)
- 14 days
- Daily diary before going to bed



Daily Diary

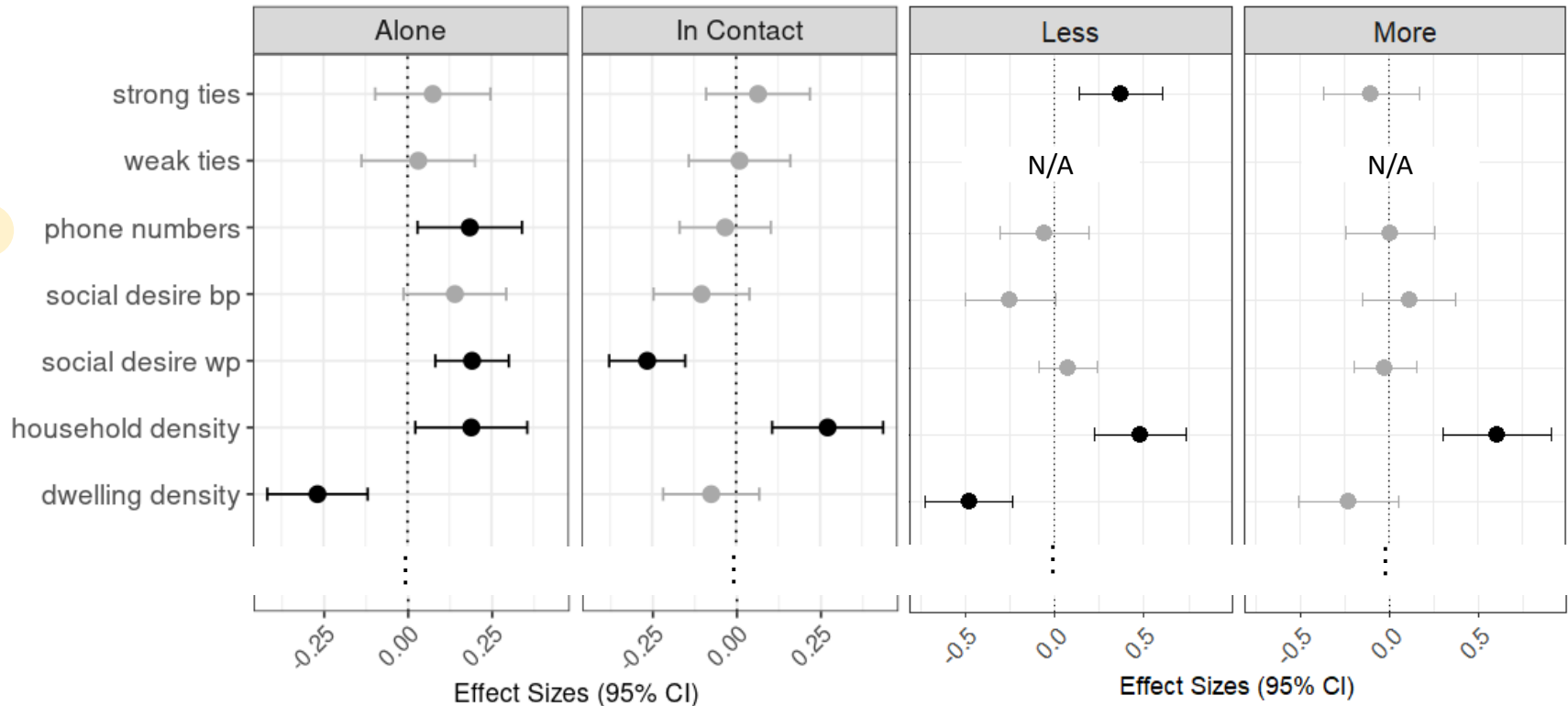


Mobile
Sensing

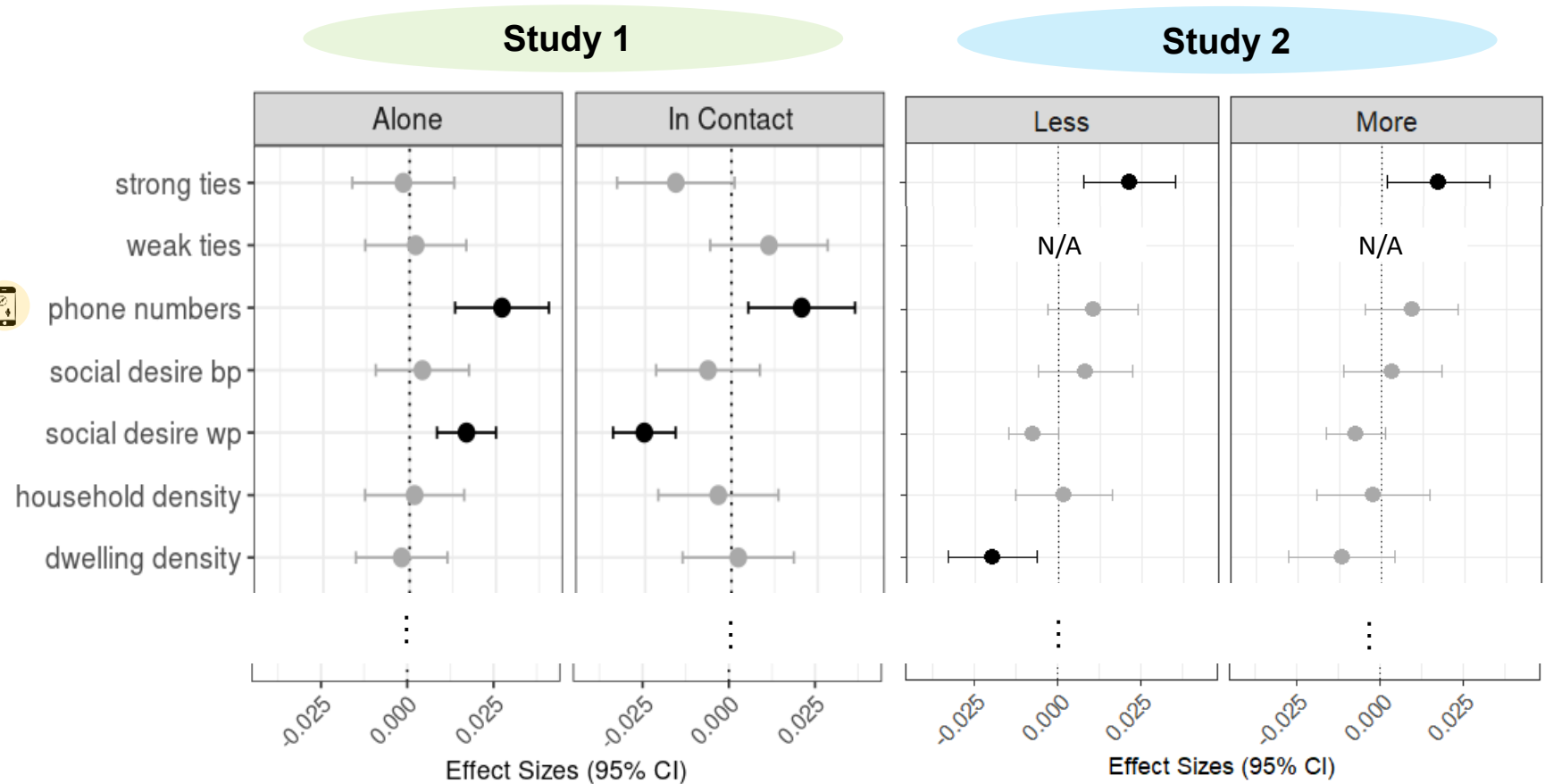
Results 1: Social Interaction Outcome

Study 1

Study 2



Results 2: Conversation Outcome



some interactions were significant in these models

Summary

*H1: People with larger social networks
transition faster from solitude to social
interactions.*



Study 1

x x ✓

? x ✓

Study 2

✓ x

✓ ?

*H2: People living in high-density
environments transition faster from
solitude to social interactions but
transition slower from interactions to
solitude.*



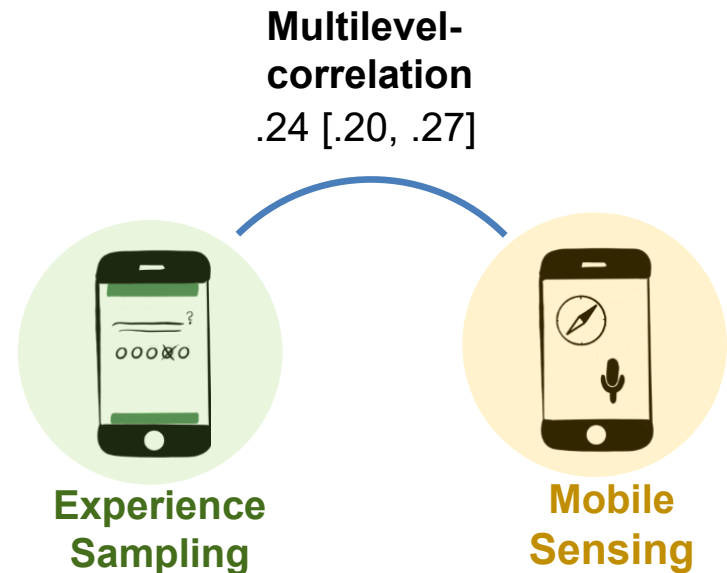
✓ x

? x

✓ x

x ?

- Allows learning about measurement methods
- Allows joint interpretation of "objective" and "subjective" data types
- Demands substantial effort



Roos et al., 2023

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...

Carver, C. S., & Scheier, M. F. (1982). Control theory: A useful conceptual framework for personality—social, clinical, and health psychology. *Psychological bulletin*, 92(1), 111.

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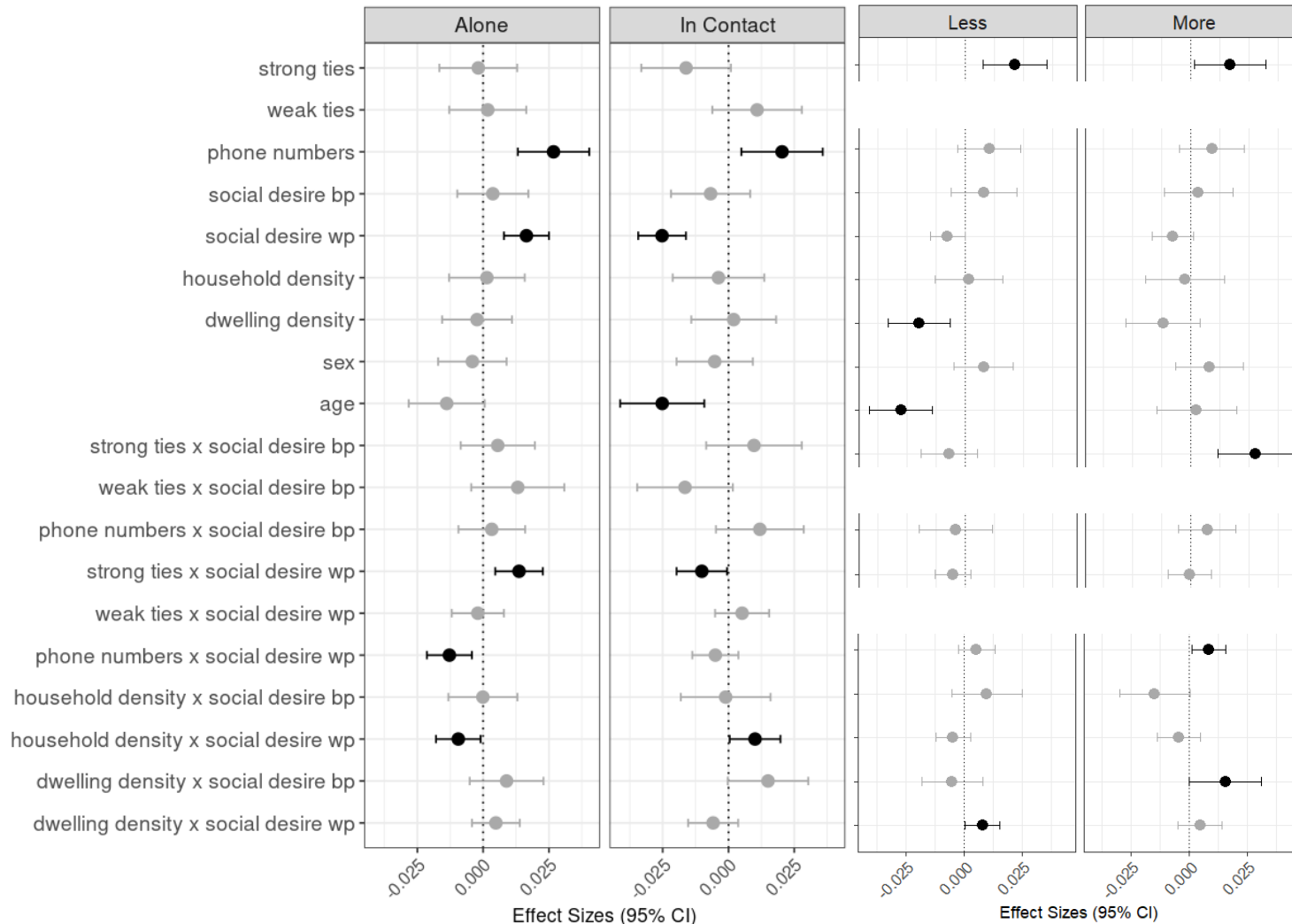
Roos, Y., Krämer, M. D., Richter, D., Schoedel, R., & Wrzus, C. (2023) Does Your Smartphone “Know” Your Social Life? A Methodological Comparison of Day Reconstruction, Experience Sampling, and Mobile Sensing. *Advances in Methods and Practices in Psychological Science*. Advance online publication.

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Pictograms used in this presentation were drawn by Kim and Yannick Roos

Appendix

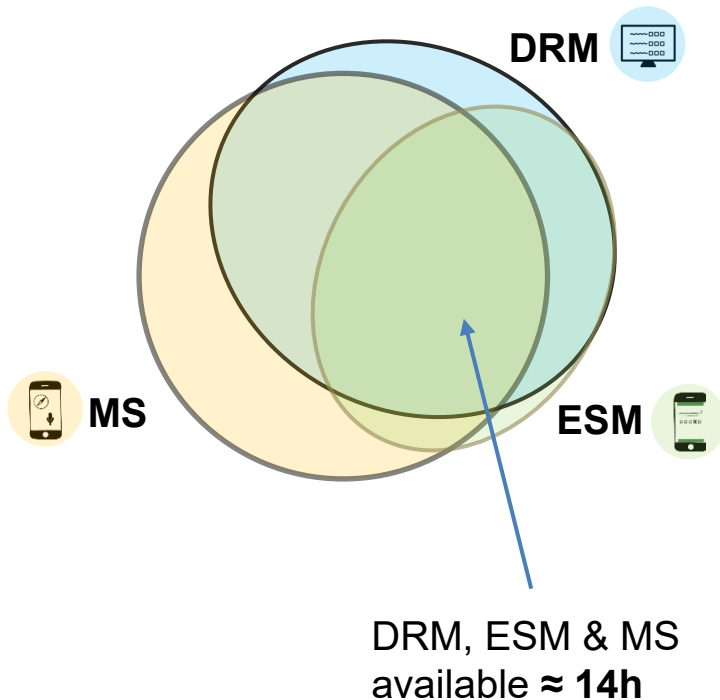
Results 2: Conversation Outcome



Method Comparison



Time covered
(out of 48 hours)



Conditional Agreement
(when measuring during the same time)

**Multilevel-
correlation**

DRM	ESM	.51 [.48, .53]
DRM	MS	.20 [.17, .23]
ESM	MS	.24 [.20, .27]

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