Replication: On the Ecological Validity of Online Security Developer Studies:
Exploring Deception in a Password-Storage Study with Freelancers

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- Naiakshina et al. [CHI'19] conducted a study on password storage
- Study was not announced as an academic study but as a real project

- **Examining deception in the study context:** We announced the study as an academic study

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Study Design Changes

	Naiakshina et al. [CHI'19]	**Replication**
Recruitment	Selected Freelancers	Freelancers applied for the study
Study Announcement	❌	✔️
Frameworks	JSF	Spring vs JSF

Security of code submissions

	Secure	Unsecure
Non-Prompted	5	16
Prompted	15	7

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Takeaways

- Study with deception in study context and our replication with announcement yielded same significant effects and directions

Takeaways

- Only one data point - more studies necessary

Thank you for your attention!

Questions?

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