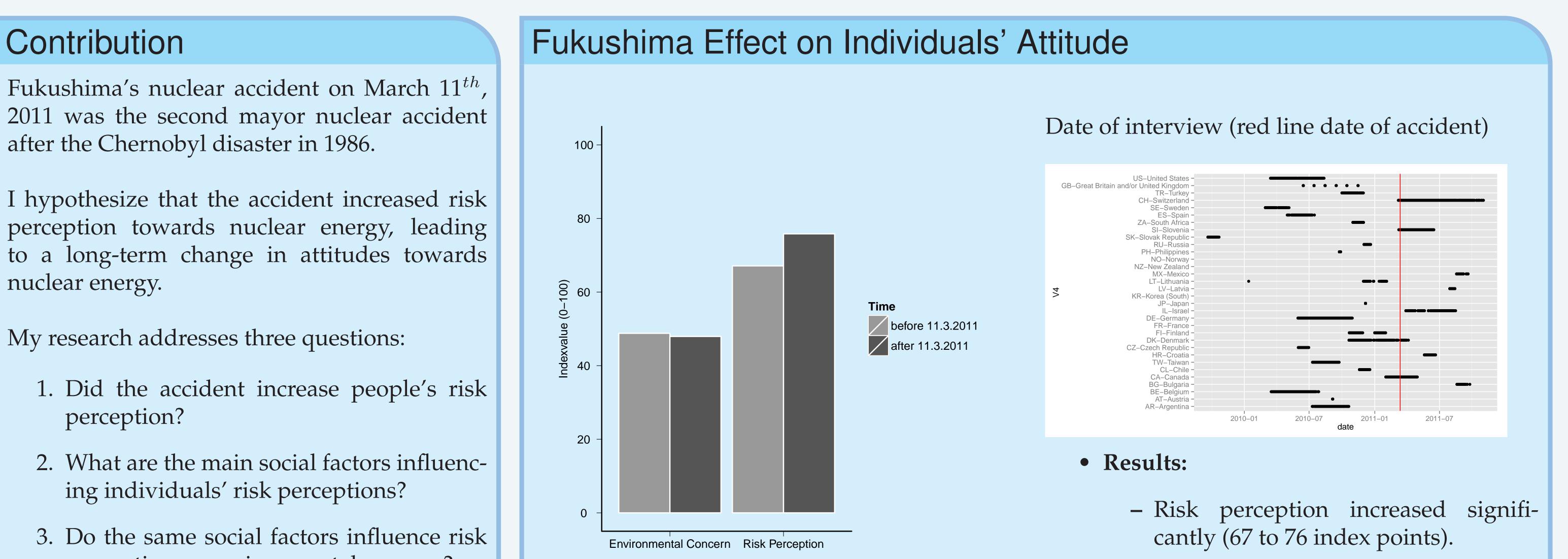
Fukushima Effect on Environmental Attitudes

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- perception as environmental concern?

Data and Methods

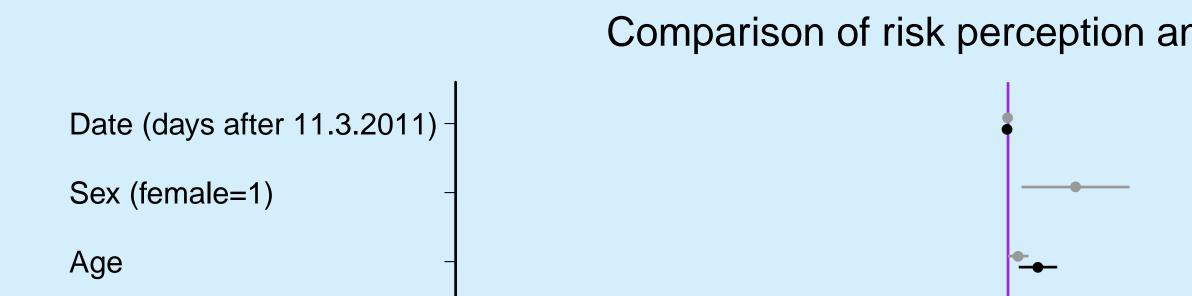
Data: I use data from the International Social Survey Programme (ISSP) 2010, conduced in 32 member countries between 2010 and 2011. The ISSP conducts mostly face-to-face interviews, providing the exact date of each interview. For the estimation two separate datasets were built: 1) individuals interviewed before the accident and 2) individuals interviewed after the accident.

Method: A fixed effects multi-level model is used to control for unobserved country effects.

- Environmental concern did not change (49 to 48 index points).

Note: Environmental concern is an index of nine items on a five point Likert scale from *strongly agree / very* willing to strongly disagree / very unwilling. Risk perception is a measured asking on a five point Likert scale: "Do you think that nuclear power stations are:" from *extremely dangerous* to *not dangerous at all for the environment*?. All indices are standardized between 0 and 100 index points.

Comparison of Nuclear Risk Perception and Environmental Concern



Comparison of risk perception and environmental concern

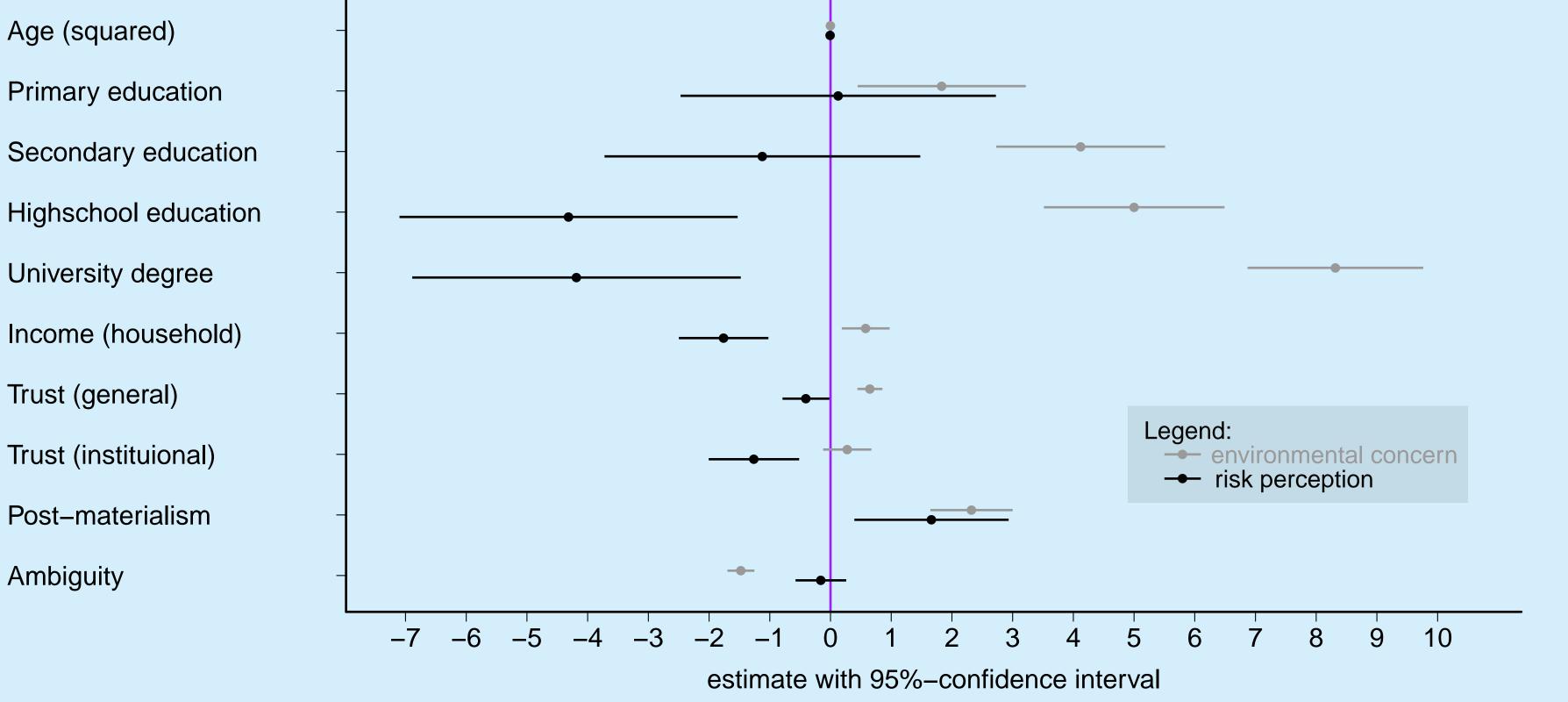
Conclusion

Main results:

- There is a **Fukushima-Effect**: the accident changed individuals' risk perception but did not change people's overall environmental concern.
- Status matters: Across all countries, highly educated individuals are less likely to express nuclear risk perception but more likely to have higher environmental concern.

Conclusions:

- Higher economic and social status makes individuals more likely to trust in their own assessment of risk.
- Trust in institutions matters, because in



Results:

- Individuals' risk perception does not decrease after the accident.
- Contradictory effects for social status (education and income):
 - Higher social status results in less risk perception and higher environmental concern. – The more people trust, the lower their risk perception and the higher their environmental concern.

case of a nuclear accident the situation is not personally controllable. Therefore trust in institutions is crucial to trust in high risk technologies.

References

• Dominikus Vogl. 2014. The Fukushima-Effect on individuals' risk perception and individuals' environmental concern (forthcoming).

• Pampel, Fred C. 2011. Support for Nuclear Energy in the Context of Climate Change: Evidence From the European Union. Organization Environment 24: 249–268.

- Women have higher environmental concern and risk perception. Age has an inverse u-shaped effect – the positive effect decreases for older people.
- Post-materialistic attitudes have a strong positive influence on risk perception and environmental concern.

Note: Fixed-effects models for all interviews conducted after the Fukushima accident on 11.3.2011. Point estimators with 95%-confidence intervals for 1) risk perception and 2) environmental concern.

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