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Persisting Gender Gap in the Field of Academic Entrepreneurship.

The Case of Switzerland

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Academic Entrepreneurship

The Entrepreneurial University

Universities are increasingly important for technical and social innovation; increased exploitation and market-oriented action of knowledge production

Women in Academic Entrepreneurship?

- The proportion of women in science-based start-ups is very low (Rosser 2012; Micozzi et al. 2015; Lawton Smith et al. 2015).
- Only 9% of the patents, licences and spin-offs at universities were filed by women (2010-13) (European Commission 2016:6).
- Women entrepreneurs dominate in the sector groups human health and social work activities (60%), other service activities (59%), and education (55%) (European Commission, 2014). On the other hand, only 13% of high tech start-ups are led by women (German Startup Monitor, 2015).

The Case of Switzerland

- Women in Switzerland are almost half as likely to be engaged in entrepreneurial activities as men (f: 5.8% vs. m: 11.1%) (GEM, 2017).
- Only 6.9% of science-based spin-off's created by women (2012) (SwiTT-report 2013)
- Specific backlog in spin-off creation at Universities of Applied Science (UAS), a vocation oriented type of university.

Theoretical perspectives

Universities can be seen as **institutional actors**, which produce/reproduce gender inequalities also in the **context of spin-off formation** (Roski 2011)

Spin-off formation influenced by

- Formal rules (i.e. support strategies, spin-off and gender equality policies, incentives)
- Informal expectations and practices (i.e. implicit conceptions of entrepreneurship and routines) (North 1990, 2005; Kirby et al. 2011)

Different **disciplinary cultures and traditions** impact on formal/informal conditions (market orientation, commercialization)

Research Questions

- How do Swiss Universities of Applied Science (UAS) foster spin-off intentions and activities of women researchers?
- Which informal conditions, implicit rules and expectations can be identified with respect to entrepreneurship and how are they related to gender constructions and practices?
- Which relations can be identified between disciplinary fields and formal/informal conditions for spin-off formation?

Methods

Survey conducted in 2017 and 2018 at six (out of 7) public Universities of Applied Sciences in Switzerland (UAS)

Support measures to foster spin-off intentions and activities of women researchers

N= 6 Universities of Applied Sciences

N=14 Departments

Expert interviews conducted with heads of start-up centers

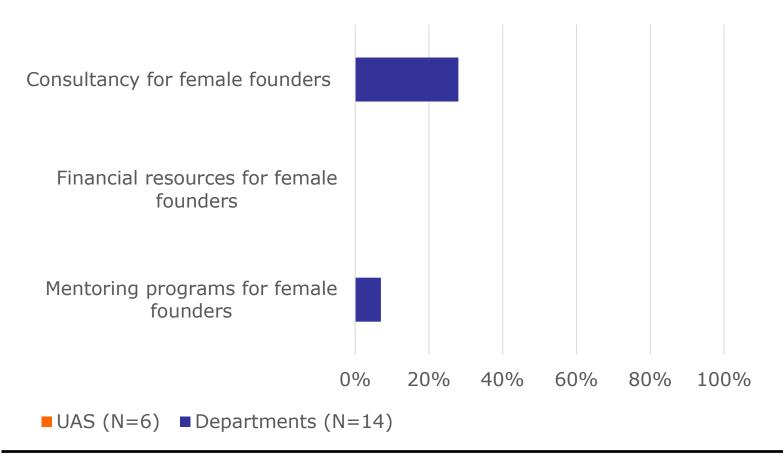
Specific conditions for spin-off activities of women in terms of

- Formal factors (structural barriers etc.)
- Informal factors (mindset)

N=6 heads of start-up centers

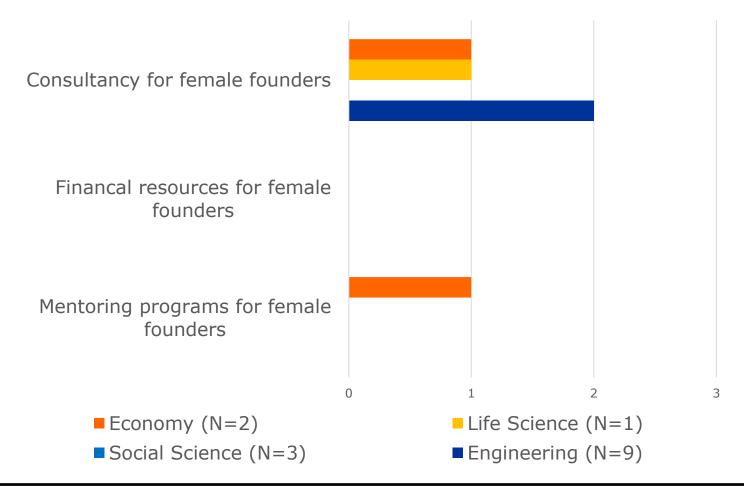
Results I

What kind of support is offered specifically for female founders at Swiss Universities of Applied Sciences?



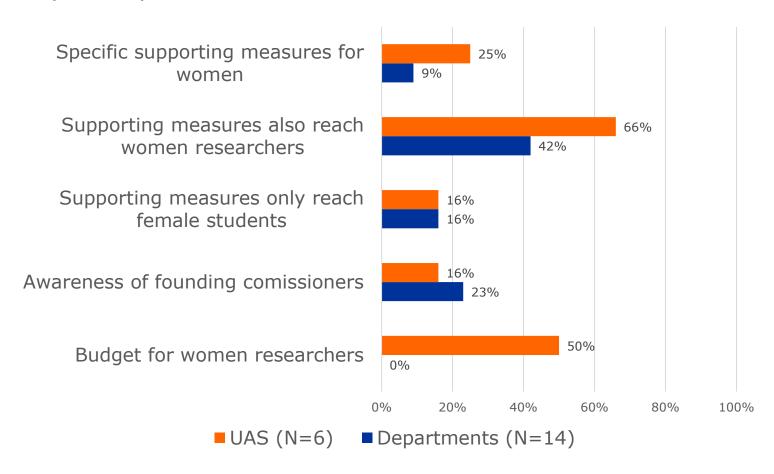
Results II

What kind of support is offered for female founders in the different disciplinary fields?



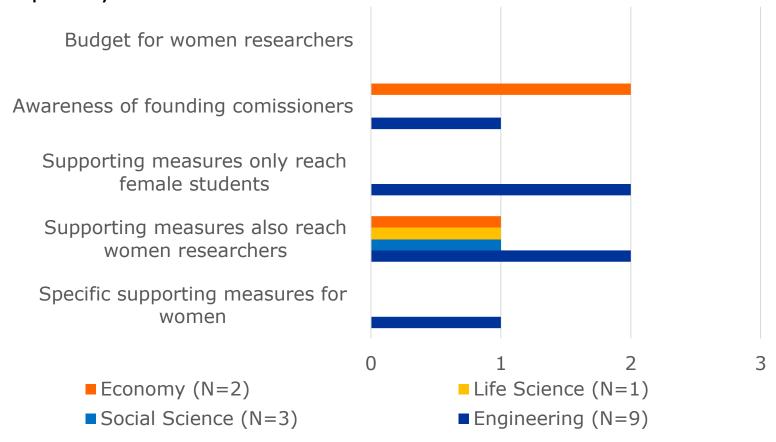
Results III

How far do strategic objectives include an explicit reference to the spin-off promotion for **women researchers?**



Results IV

How far do strategic objectives include an explicit reference to the spin-off promotion for **women researchers** in the different disciplinary fields?



Results V

Formal and informal conditions at Swiss UAS which potentially obstruct the participation of women in the field of academic entrepreneurship.

Formal-structural barriers

Missing objective and financial resources to forster women

- Lack of specific support measures for women
- Women researchers are no specific target group in Entrepreneurship Education

Informal-cultural barriers

- Low awareness of head of startup centers concerning gender gap
- Dominance of masculine attributes in academic entrepreneurship (STEM)
- Difficult access to research fields that are already entrepreneurial
- Exclusion processes in the formation of founding teams

Conclusion

- Swiss Universites of Applied Sciences have done little to foster women founders so far
- Instead, specific formal and informal barriers generate a gender gap in academic entrepreneurship
- Support measures for women researchers in academic entrepreneurship only exist in disciplines which are already entrepreneurial
- A consistent transfer strategy might be key for bringing in line the formal and informal preconditions for providing an effective incentive structure to promote women founders

Discussion

