Sarah Tell

Ph.D., Lic. Eng., M.Sc., B.Sc., BBA

Sarah Tell
www.sarahtell.tech
+46 73 09 11 112
sarah.lm.tell@gmail.com
Äppelblomsvägen 26,
139 32 Värmdö, Sweden

About me

After having spent basically my entire working life in academia, I have recently defended my doctoral dissertation within structural dynamics. Now, I am looking forward to new challenges. I have an interest in programming and digitalization.

Education

2017-2021 — Ph.D. in Structural Engineering and Bridges.
KTH Royal Institute of Technology, Stockholm Sweden.

2014-2017 — Lic. Eng. in Structural Engineering and Bridges.
KTH Royal Institute of Technology, Stockholm Sweden.

2011-2014 — BBA, Business Administration.
Stockholm University, Stockholm Sweden.

2009-2014 — M.Sc., B.Sc. in Civil and Architectural Engineering.
KTH Royal Institute of Technology, Stockholm Sweden.

Experience

2014-2021 — Ph.D. candidate in Structural Engineering and Bridges.
KTH Royal Institute of Technology, Stockholm Sweden.

I was a PhD student at the Division of Structural Engineering and Bridges, with Structural Dynamics as main topic. The aim of my research project was to propose a vibration mitigation method for reducing excessive vibrations of railway bridge decks. This was achieved by installing (numerically and experimentally) fluid viscous dampers between the superstructure of the bridge and the abutments. During my studies, I had the opportunity to go abroad as a visiting researcher to the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign (USA). The overall purpose of the visit was to conduct real-time hybrid/hardware-in-the-loop simulations consisting of a numerical bridge model communicating with a physical magnetorheological damper in their laboratory. I have also been a teaching assistant in the master level courses AF2011 *Structural Dynamics for Civil Engineers* and AF2024 *Finite Element Methods in Analysis and Design*. My main tasks as a teaching assistant were to help the students with the assignments and be responsible for laboratory work, formulate exam questions and correct exams.

2014 — Master thesis student.
Department of Bridges, Tyréns, Stockholm Sweden.

2013 — Summer intern.
Department of Geostructures, Sweco, Stockholm Sweden.

2011-2012 — Summer intern.
Samhällsbyggnadskontoret Kalmar kommun, Kalmar Sweden.

2011 — Intern.
Anläggning, PEAB, Stockholm Sweden.

2009 — Customer Service Representative.
Apoteket, Kalmar Sweden.

Sarah Tell

Ph.D., Lic. Eng., M.Sc., B.Sc., BBA

Sarah Tell
www.sarahtell.tech
+46 73 09 11 112
sarah.lm.tell@gmail.com
Äppelblomsvägen 26,
139 32 Värmdö, Sweden

Computer skills

- Matlab
- Latex
- Abaqus (Brigade)
- Python
- React
- Git
- Bash

Skills

- Research
- Scientific writing
- Structural dynamics
- Structural engineering
- Finite element analysis
- Numerical methods
- Data visualization

Languages

- Swedish (mother tongue)
- English (fluently)
- French (beginner)

Publications, by selection

2021	*Vibration mitigation of high-speed railway bridges - Application of damping devices in theory and practice*. Doctoral thesis in Structural Engineering and Bridges.
2020	*Probability-based evaluation of the effect of fluid viscous dampers on a high-speed railway bridge*. Structure and Infrastructure Engineering, published online.
2017	*Vibration mitigation of high-speed railway bridges - Application of fluid viscous dampers*. Licentiate thesis in Structural Engineering and Bridges.
2017	*Application of fluid viscous dampers to mitigate vibrations of high-speed railway bridges*. International Journal of Rail Transportation 5(1): 47-62.
2016	*Structural Control of high-speed railway bridges by means of fluid viscous dampers.* Presented during conference: IABSE 2016, Stockholm Sweden.
2015	*Parametric evaluation of viscous damper retrofit for high-speed railway bridges.* Presented during conference: COMPDYN 2015, Crete Greece.

References

are available upon request. The issuance of my doctoral degree is in progress by KTH.