



Sarah Tell

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



Sarah Tell



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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 Geotechnics, 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.



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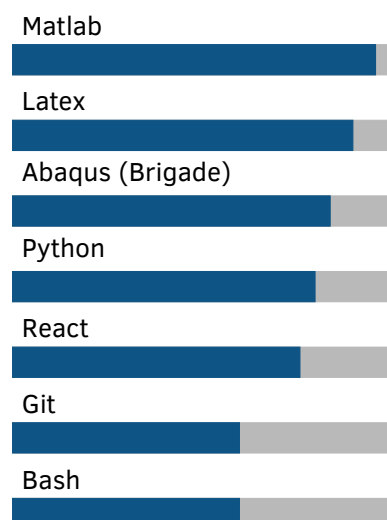


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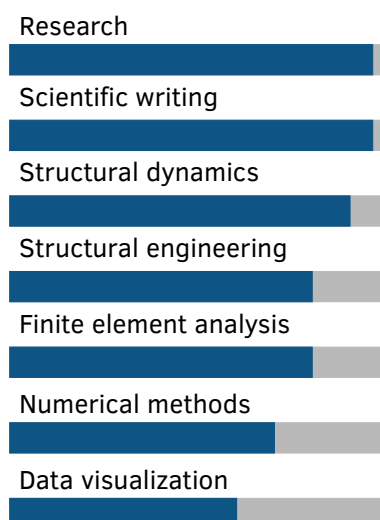


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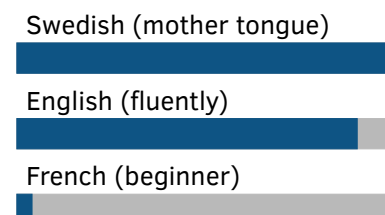
Computer skills



Skills



Languages



Publications, by selection

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

References

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