## Geometric phases in soft materials

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## List of publications

- Hamed Abbaszadeh, Michel Fruchart, Wim van Saarloos, and Vincenzo Vitelli. Liquid-crystal-based topological photonics, Proceedings of the National Academy of Science (in press). arXiv: 2005.02476. [Chapters 3 and 4].
- Hamed Abbaszadeh, Anton Souslov, Jayson Paulose, Henning Schomerus, and Vincenzo Vitelli. Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. Phys. Rev. Lett. 119, 195502, 2017. URL: https://link.aps.org/doi/10.1103/PhysRevLett.119.195502. [Chapter 2].


## Curriculum vitæ

I was born in 1991 in Amol, Iran. I stayed in my hometown until the end of high school. During the third year of high school I participated in the National Physics Olympiad, for which I received a silver medal.

In 2009, I moved to Tehran, Iran and started my bachelor studies at Sharif University of Technology, where five years later, I graduated with honors with a double major in Physics and Mathematics. During my fourth year, I won a gold medal at the National Collegiate Physics Olympiad. I have also spent most of the weekends in these years to prepare high-school students for the physics olympiads in various places in Iran.

In 2014, I joined the MSc program in theoretical physics at Leiden University with a LExS Platinum scholarship. With great joy I moved to Leiden, where I have spent most of the past 6 years of my life. For my master thesis, I joined the Soft-Matter theory group of Prof. Vincenzo Vitelli, and worked on mechanical analogues of Landau levels. In 2016, I graduated cum laude for the MSc degree, and continued in Prof. Vitelli's group in Leiden as a PhD candidate. During the four years of my PhD, I have attended schools and seminars in the Netherlands, Germany, Italy, and the United States. Since prof. Vitelli moved to the University of Chicago in the fall of 2017, I have spent the fall quarter of 2019 in his new group at the James Franck Institute as a visiting graduate student.

During my bachelor and PhD I was a teaching assistant for courses in Statistical Physics and Theory of General Relativity. After my PhD, I will stay at Leiden Institute of Physics as a postdoctoral researcher and a tutor for the MSc physics program.

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