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Stable isotopes in stratospheric carbon monoxide

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About the author

I was born on 7 December 1992 in Slochteren. With a strong interest in the natural sciences I graduated from “het Zernike College” in Haren in 2011. Core subjects were mathematics (wiskunde b & d), physics, chemistry, biology and geography. With a diverse interest in all of the natural sciences, I started a bachelor in Earth Sciences at Utrecht university for half a year. After I realised I often wondered about the more fundamental laws of nature, I decided to switch to theoretical and experimental physics at the University of Groningen in 2012. In spring 2014, I graduated under the supervision of Steven Hoekstra with a thesis entitled “Characterizing and locking an optical cavity for dipole trapping of SrF molecules”. Afterwards, I started the Energy and Environmental Science Master in 2014 to graduate in 2016. Graduating comprises the writing of two smaller thesis. The first, under the supervision of Rien Herber and Alexandros Daniilidis, was entitled “The effect of production scenarios on the geochemistry and performance of a geothermal reservoir in the Groningen concession”. Under the supervision of Huilin Chen I wrote my master thesis “Development of a balloon-borne lightweight stratospheric air sampler”, laying the foundation for my PhD. I started my PhD in 2016 right after my graduation.

During the major part of my Bachelor and Masters, I worked at restaurant de Boerderij in Slochteren. Additionally, I took a job as a teaching assistant for Geo Energy in 2015, when working on my first Thesis. I remained a teaching assistant for Geo Energy until the retirement of Rien Herber. My interest in teaching has been growing since, and I have assisted for the courses Global Change, Climate Modelling, and Impacts of Energy and Material systems; Additionally I supervised the bachelor thesis of Jelle Moes and the master thesis of Meis Uijttewaai.

Currently, I work as a postdoc at Wageningen University, studying the carbon cycle using atmospheric inverse modelling techniques. Aside from my scientific interests, I like to listen to and play music, play football, and surf. Furthermore, I like do-it-yourself in and around our house, where I live with Chantal and two fantastic kids, Lasse and Siem.

List of Publications

- Daniilidis, A., T. Scholten, J. J. D. Hooghiem, C. De Persis, and R. Herber (2017). “Geochemical implications of production and storage control by coupling a direct-use geothermal system with heat networks”. *Applied Energy*. DOI: <https://doi.org/10.1016/j.apenergy.2017.06.056>.
- Hooghiem, J. J. D., M. E. Popa, T. Röckmann, J.-U. Groß, I. Tritscher, R. Müller, R. Kivi, and H. Chen (2020). “Wildfire smoke in the lower stratosphere identified by in situ CO observations”. *Atmospheric Chemistry and Physics*. DOI: 10.5194/acp-20-13985-2020.

Hooghiem, J. J. D., M. de Vries, H. A. Been, P. Heikkinen, R. Kivi, and H. Chen (2018). “LISA: a lightweight stratospheric air sampler”. *Atmospheric Measurement Techniques*. DOI: 10.5194/amt-11-6785-2018.