Short CV Prof. Dr. Ir. J.H. (Jacco) Snoeijer

Personal: Born July 4th, 1975, in Kampen, The Netherlands
Affiliation: Faculty of Science & Technology University of Twente
Position: Professor Capillary Flows & Elasticity
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Education

2000 – 2003 PhD thesis at Leiden University with Prof. Dr. W. van Saarloos and Dr. M. van Hecke, on "Statistics of Force Networks in Granular Media".
1993 – 1999 MSc degree in Applied Physics, University of Twente, the Netherlands

Professional experience

2008 – now (Assistant/Associate/Full) Professor at the Physics of fluids group University of Twente, The Netherlands
2013 – 2017 Professor (0.2 FTE), University of Eindhoven, The Netherlands
2006 – 2008 Postdoctoral Marie Curie Fellow, University of Bristol, United Kingdom
2004 – 2006 Postdoctoral Marie Curie Fellow, Ecole Supérieure de Physique et de Chimie Industrielles in Paris, France

Research interests

- **Contact line dynamics**

sliding drops; Landau-Levich films; wetting dynamics; immersion lithography and coating; van der Waals interactions; hysteresis; air entrainment

- **Elasticity & Adhesion**

wetting & adhesion of soft materials, lubrication of soft bodies, elasto-capillary instabilities, Shuttleworth effect

- **Drops and bubbles**

collapsing bubbles; entrapment; surface nanobubbles; Leidenfrost effect; freezing drops; deposition and drying; evaporation; drop impact and coalescence; singularities; inkjet printing

- **Granular materials**

statistical mechanics of granular media; force networks; rheology; acoustic response; suspensions

Awards, personal grants, memberships

2018 VICI Laureate "Soft Contact", Innovational Research Incentives Scheme, Dutch Science Foundation
2018 Member of the editorial board of Physical Review Fluids
2017 Chair Scientific Advisory Board (physics) of the Lorentz Center
2015 Member Scientific Advisory Board (physics) of the Lorentz Center
2016 Leen van Wijngaarden Prize 2015, JM Burgers Center, for excellence in fluid mechanics for a researcher less than 40 years
2013 Member Scientific Advisory Board of "Micromast", Belgian research network on Microfluidics
2013 ERC Consolidator grant "Soft Wetting"
2011 Visiting Professor, Université Paris 7
2010 VIDI Laureate "Inertial contact lines", Innovational Research Incentives Scheme, Dutch Science Foundation
2006 Marie Curie Intra-European Fellowship
2004 Marie Curie Intra-European Fellowship

Supervision & teaching

- Supervised PhD thesis as PI: 8 completed, 5 ongoing
- > 10 years of lecture courses in classical mechanics, fluid dynamics & solid mechanics at undergraduate and advanced levels. Frequent invited short courses at Summerschools and Universities, including Copenhagen, Rennes, Bruxelles, and Dutch schools on fluid mechanics (JMBC) and on physical chemistry (Han-sur-Lesse).
- Teacher of the year awards 2012 and 2018, by students in Applied Physics University of Twente.

Publications (October 2018)

103 peer-reviewed publications
1 paper in Nature Communications, 4 papers in PNAS, 17 papers in Phys. Rev. Lett.
3 invited reviews (Soft Matter 2010, Ann. Rev. Fluid Mech. 2013, Ann. Rev. Fluid Mech. 2020)
H-index 33 (Web of Science), 41 (Google scholar)

Ten selected publications from the last 5 years

1. J.H. Snoeijer, E. Rolley and B. Andreotti,
   Paradox of contact angle selection on stretched soft solids, Phys. Rev. Lett. **121,** 068003 (2018).
2. U. Thiele, J.H. Snoeijer, S. Trinschek, and K. John,
   Equilibrium contact angle and adsorption layer properties with surfactants, Langmuir, **35**, 7210–7221, (2018).
3. S. Karpitschka, J. Eggers, A. Pandey and J.H. Snoeijer,
   Cusp-shaped elastic creases and furrows, Phys. Rev. Lett. **119**, 198001 (2017).
4. S. Karpitschka, A. Pandey, L.A. Lubbers, J.H. Weijs, L. Botto, S. Das, B. Andreotti and J.H. Snoeijer,
   Liquid drops attract or repel by the inverted Cheerios effect, PNAS **113**, 7403 (2016)
5. B. Andreotti and J.H. Snoeijer,
   Soft wetting and the Shuttleworth effect, at the crossroads between thermodynamics and mechanics, Europhys. Lett. **113**, 66001 (2016)
6. H. Mehrabian, J. Harting and J.H. Snoeijer,
   Soft particles at a fluid interface, Soft Matter **12**, 1062 (2016)
7. S. Karpitschka, S. Das, M. van Gorcum, H. Perrin, B. Andreotti and J.H. Snoeijer,
   Droplets move over viscoelastic substrates by surfing a ridge, Nature Comm. 6, 7891 (2015)
8. L. Lubbers, J. Weijs, L. Botto, S. Das, B. Andreotti, and J.H. Snoeijer, *Drops on soft solids: free energy and double transition of contact angles*, J. Fluid Mech. **747**, R1 (2014).
9. A. Eddi, K.G. Winkels and J.H. Snoeijer,
   Influence of droplet geometry on the coalescence of low viscosity drops, Phys. Rev. Lett. **111**, 144502 (2013).
10. J.H. Snoeijer & B. Andreotti, *Moving contact lines: Scales, regimes and dynamical transitions*, Ann. Rev. Fluid Mech. **45**, 629 (2013)