Scott Russell Waitukaitis

Zocherstraat 40 3, 1054 LZ Amsterdam, The Netherlands swaitukaitis@gmail.com | +31 (0) 6 81 64 98 www.swaitukaitis.com

EDUCATION

Ph.D. in Physics, The University of Chicago, Chicago (USA)

· Advisor: Heinrich Jaeger

Nicolas Mújica

media

 Committee: Tom Witten, Wendy Zhang and Henry Frisch Thesis: Impact-activated solidification of cornstarch and water suspensions Winner of the Springer Thesis Award B.S. in Physics, The University of Arizona, Tucson (USA) Thesis: Resonant Faraday rotation in a hot lithium vapor Summa cum laude, with Honors Sigma Pi Sigma and Phi Beta Kappa societies 	2004-2007	
RESEARCH APPOINTMENTS		
NWO Institute AMOLF, Veni scholar and postdoctoral fellow with Martin van Hecke • Experiments in strongly coupled fluid-solid systems and simulations of origami-based mechanical metamaterials • Leist guest appointment at Leiden University	2016-present	
 Joint guest appointment at Leiden University The Leiden Institute of Physics at Leiden University, Postdoctoral fellow with 	2013-2016	
Martin van Hecke	2010 2010	
 Simulations of origami-based mechanical metamaterials 		
The James Franck Institute at the University of Chicago, Graduate research assistant with Heinrich Jaeger	2008-2013	
• Experiments and simulations involving non-Newtonian fluids and complex systems The James Franck Institute at the University of Chicago , Graduate research assistant with	2007-2008	
Cheng Chin	2007-2008	
 Experimental design and construction of ultra-high vacuum system, Zeeman slower, and magneto-optical trap for lithium atoms 		
The Department of Physics at the University of Arizona, Undergraduate research assistant	2005-2007	
with Alex Cronin		
 Experiments on quantum Faraday rotation with lithium atoms The Department of Physics at the Montana State University, Research experience for 	2005	
undergraduates summer internship with Angela des Jardins and Richard Canfield		
Computational analysis of magnetic and X-ray solar flare data		
EXTENDED STAYS		
The Department of Physics at the University of Chile, Visiting scholar in the lab of	2009	

• Experiments on universality in liquid-to-solid phase transition in vibrated granular

2007-2013

HONORS

Winner of Fysica Young Speakers Contest, NNV Fysica Congress, Utrecht (NL)	2018
Block Prize for Outstanding Young Researcher, Aspen Center for Physics	2018
C.J. Kok 'Discoverer of the Year' Prize (2 <i>nd place</i>), Leiden University	2017
Veni Research Grant, The Netherlands Organization for Scientific Research	2016-present
• €250,000 individual research grant	2010-present
Proposal: The active dynamics of the elastic Leidenfrost effect	•04.4
The Springer Thesis Award, Springer Publishing	2014
Thesis published as book by Springer	
The Arts Science Initiative Graduate Fellowship Grant, The University of Chicago	2012-2013
 \$2000 shared grant with artist Jen Smoose for sculptural project Wishful Permutation 	
 Exhibition at the Logan Center for the Arts, Chicago (USA) 	
The Bruce Winstein Prize for Instrumentation, The Department of Physics at	2012
the University of Chicago	
 \$1000 award for development of new technique to measure electrostatic charging 	
Outstanding Oral Presentation Award, The Electrostatics Society of America	2011
 Talk title: Direct measurement of size-dependent charging in chemically identical grains 	
The Robert A. Millikan Fellowship , The Department of Physics at the University of Chicago	2010-2013
 Full tuition and research scholarship for 3 years of study 	
The Robert G. Sachs Fellowship, The Department of Physics at the University of Chicago	2007-2009
Outstanding Senior Award, The Department of Physics at the University of Arizona	2007
Outstanding Research Presentation Award, The Department of Physics at the University of	2007
Arizona	
Honors Transfer Scholarship, The University of Arizona	2004-2007
Synergistic Activities	
	2018
EUSMI Transnational Access Colaboration, Edinburgh (SL)	2018
• With Dr. Jochen Arlt and Dr. Aidan Brown	
• With Dr. Jochen Arlt and Dr. Aidan Brown Chair, The Granular Gordon Research Seminar 2018, Easton (USA)	2018 2018
 EUSMI Transnational Access Colaboration, Edinburgh (SL) With Dr. Jochen Arlt and Dr. Aidan Brown Chair, The Granular Gordon Research Seminar 2018, Easton (USA) With co-chair Cacey Bester and GRC chairs Deveraj van der Meer and Aparna 	
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 EUSMI Transnational Access Colaboration, Edinburgh (SL) With Dr. Jochen Arlt and Dr. Aidan Brown Chair, The Granular Gordon Research Seminar 2018, Easton (USA) With co-chair Cacey Bester and GRC chairs Deveraj van der Meer and Aparna Baskaran Organizer, The World in a Grain of Sand: A Symposium on the Collective Behavior of Particles, Chicago (USA) a.k.a. Jaegerfest: A celebration of Heinrich Jaeger's 60th birthday With co-organizers Eric Corwin, Xiao-Min Lin, Raghuveer Parthasarathy, Xiang Cheng 	2018
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 EUSMI Transnational Access Colaboration, Edinburgh (SL) With Dr. Jochen Arlt and Dr. Aidan Brown Chair, The Granular Gordon Research Seminar 2018, Easton (USA) With co-chair Cacey Bester and GRC chairs Deveraj van der Meer and Aparna Baskaran Organizer, The World in a Grain of Sand: A Symposium on the Collective Behavior of Particles, Chicago (USA) a.k.a. Jaegerfest: A celebration of Heinrich Jaeger's 60th birthday With co-organizers Eric Corwin, Xiao-Min Lin, Raghuveer Parthasarathy, Xiang Cheng Leah Roth and Kieran Murphy Co-researcher, Experimental Astrophysical Research into Terrestrial Growth (EARTh) Winner of the Chilean QUIMAL prize (\$315,000 research grant) With lead investigator Nicolas Mújica and co-researchers Rodrigo Soto, Simon Casassus, Devin Schrader and Marcos Flores Organizer, Soft Matter Seminar at the Leiden Institute of Physics With co-organizers Jayson Paulose and Bryan Chen Congress Assistant, MarchCOM Meeting on Complexity, Havana (CU) With direction from organizers Ernesto Altshuler and Jon Otto Fossum Workshop Assistant, Fluidity, adaptability, rigidity: Frontiers in pure and applied jamming, Chicago (USA) With direction from organizers Heinrich Jaeger, Sidney Nagel and Sean Keller 	2017 2016-present 2013-2014 2012 2012

2009-2011 2007 2006-2007

LIST OF PUBLICATIONS

(*high impact)

In final stages or in review

21. Combinatorial crease patterns for multi-shape origami metamaterials Peter Dieleman, Niek Vasmel, Scott Waitukaitis, and Martin van Hecke *in final stages of preparation*

20. Multistable mechanics of non-Euclidean four vertex origami

Scott Waitukaitis, Pieter Dieleman, and Martin van Hecke in final stages of preparation

Published

19. From bouncing to floating: the Leidenfrost effect with hydrogel spheres

Scott Waitukaitis, Kirsten Harth Martin van Hecke *Physical Review Letters* 121, 048001 (2018).

18. Collisional charging of individual sub-millimeter particles: using ultrasonic levitation to initiate and track charge transfer

Victor Lee, Nicole M. James, Scott Waitukaitis, and Heinrich Jaeger *Physical Review Materials* **2**, 035602 (2018).

17. A high-speed tracking algorithm for dense granular media

Cristobal Navarro, Juan Silva, Scott Waitukaitis, Nicolas Mújica, Nancy Hitschfeld-Kahler and Mauricio Cerda

Computer Physics Communications 227, 8-16 (2018).

16. The retention of dust in protoplanetary disks: evidence from agglomeratic olivine chondrules from the outer Solar System

Devin Schrader, Kazuhide Nagashima, Scott Waitukaitis, Jemma Davidson, Timothy McCoy, Harold Connoly and Dante Lauretta *Geochimica et Cosmochimica Acta* **223**, 405-421 (2018).

- **15.** *Coupling the Leidenfrost effect and elastic deformations to power sustained bouncing (*Cover*) Scott Waitukaitis, Antal Zuiderwijk, Anton Souslov, Corentin Coulais and Martin van Hecke *Nature Physics* **13**, 1095-1099 (2017).
- 14. Origami building blocks: generic and special four-vertices

Scott Waitukaitis and Martin van Hecke *Physical Review E* **93**, 023003 (2016).

13. *Direct observation of particle interactions and clustering in charged granular streams Victor Lee, Scott Waitukaitis, Marc Miskin and Heinrich Jaeger *Nature Physics* **11**, 733-737 (2015).

12. *Origami multistability: from single vertices to metasheets Scott Waitukaitis, Rémi Menaut, Bryan Chen and Martin van Hecke *Physical Review Letters* **114**, 055503 (2015).

11. Size-dependent, same-material tribocharging in insulating grains

Scott Waitukaitis, Victor Lee, James Pierson, Steve Forman and Heinrich Jaeger *Physical Review Letters* **112**, 218001 (2014).

10. Settling into dry granular media in different gravities

Ernesto Altshuler, Harol Torres, Gustavo Sánchez-Colina, Carlos Pérez-Penichet, Scott Waitukaitis and Raul Hidalgo

Geophysical Review Letters 41, 3032-3037 (2014).

9. From nanoscale cohesion to macroscale entanglement: opportunities for designing granular aggregate behavior by tailoring grain shape and interactions

Heinrich Jaeger, Marc Miskin, and Scott Waitukaitis *Powders and Grains* **1542**, 3-6 (2013).

8. Dynamic Jamming Fronts

Scott Waitukaitis, Leah Roth, Vincenzo Vitelli, and Heinrich Jaeger *Europhysics Letters* **102**, 44001 (2013).

7. In situ granular charge measurement by free-fall videography

Scott Waitukaitis and Heinrich Jaeger *Review of Scientific Instruments* **84**, 025104 (2013).

6. Solidificación de una suspensión de maicena y agua

Scott Waitukaitis and Heinrich Jaeger *Revista Cubana de Física* **29**, (2012).

5. *Impact-activated solidification of dense suspensions via dynamic jamming fronts

Scott Waitukaitis and Heinrich Jaeger *Nature* **487**, 205-209 (2012).

4. Droplet and cluster formation in freely-falling granular streams

Scott Waitukaitis, Helge Grütjen, John Royer and Heinrich Jaeger *Physical Review E* **83**, 051302 (2011).

3. *High-speed tracking of rupture and clustering in freely-falling granular streams

John Royer, D.J. Evans, Loreto Oyarte, Qiti Guo, Matthias Möbius, Scott Waitukaitis and Heinrich Jaeger *Nature* **459**, 1110-1113 (2009).

2. Reconnection in three dimensions: the role of spines in three eruptive flares

Angela des Jardins, Richard Canfield, Dana Longcope, C. Fordyce and Scott Waitukaitis *Astrophysical Journal* **693**, 1628-1636 (2009).

1. Cover slip external cavity diode laser

Victoria Ĉarr, Yancey Sechrest, Scott Waitukaitis, John Perrault, Vincent Lonij and Alex Cronin *Review of Scientific Instruments* **78**, 106108 (2007).

INVITED TALKS AND SEMINARS

(*high visibility)

51. Invited Seminar (planned), ESPCI, Paris (FR)

The Leidenfrost effect with hydrogels

50. Invited Talk (planned), Southern Workshop on Granular Materials, Puerto Varas (CL) *The elastic Leidenfrost effect*

Feb 4 2018

Dec 2018

49.	Invited Seminar (planned) , The School of Physics at the University of Edinburgh, Edinburgh (UK)	Oct 1, 2018
	Rabbits, dust devils, volcanoes, planets: The surprising physics of granular tribocharging	
48.	Invited Seminar, Physics Department at the University of Chile, Santiago (CL)	Aug 16, 2018
	The elastic Leidenfrost effect: coupling vapor release and elastic deformations to power sustained	
	bouncing	
47.	Invited Talk, Bessensap, Amsterdam (NL)	June 15, 2018
	Invited Talk, Amsterdam Science Now!, Amsterdam (NL)	May 31, 2018
45.	Invited Seminar, MIT Mechanical Engineering, Cambridge (US)	Mar 15, 2018
11	Granular tribocharging: from fundamental mysteries to macroscale self-assembly	May 12 2010
44.	Invited Seminar, UCSD, San Diego (US) Granular tribocharging: from fundamental mysteries to macroscale self-assembly	Mar 12, 2018
13	Invited Seminar, IST Austria, Klosterneuburg (AT)	Feb 28, 2018
45.	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	160 20, 2010
42	Invited Seminar, UMass Amherst Physics Department, Amherst (US)	Feb 16, 2018
	The elastic Leidenfrost effect: Coupling vapor release and elastic deformations to power	100 10, 2010
	sustained bouncing	
41.	Invited Colloquium, Brandeis University Department of Physics, Waltham (US)	Feb 14, 2018
	The elastic Leidenfrost effect: Coupling vapor release and elastic deformations to power	ŕ
	sustained bouncing	
40.	Invited Seminar, Boston University Mechanical Engineering, Boston (US)	Feb 7, 2018
	Transforming soft materials into engines by coupling the Leidenfrost effect to elastic deformations	
39.	Invited Seminar, Opening Act Van der Waals Colloquium,	Jan 26, 2018
	Leiden University, Leiden (NL)	
20	Out of the lab and into the frying pan: hacking hydrogels to create active matter	D = 2015
38.		Dec 7, 2017
27	<i>Using the Leidenfrost effect and hot hydrogels to make better bouncy balls</i> Invited Seminar, Laboratoire Ondes et Matière d'Aquitaine, Bordeaux (FR)	Dec 5, 2017
37.	Using the Leidenfrost effect and hot hydrogels to make better bouncy balls	Dec 3, 2017
36.	Invited Seminar, Faculty of Science at the University of Liège, Liège (BE)	Nov 13, 2017
	Coupling the Leidenfrost effect and elastic deformations to power sustained bouncing	1101 10, 201
35.	Invited Seminar, Science Meets Business, Leiden (NL)	Nov 9, 2017
	YouTube Science: How good ideas can come from anywhere	,
34.	Invited Seminar, École Normale Supérieure de Lyon, Lyon (FR)	Oct 31 2017
	Using a phase transition and the Leidenfrost effect to harness mechanical energy from vaporizable	
	soft solids	
33.	Invited Seminar , The School of Physics at the University of Edinburgh, Edinburgh (UK)	Oct 23, 2017
	Transforming soft materials into engines by coupling the Leidenfrost effect to elastic deformations	0 1 12 201
32.	Invited Seminar, The Lumière Institute at the Claude Bernard University Lyon, Lyon (FR)	Oct 13, 2017
21	Using the Leidenfrost effect and hot hydrogels to make better bouncy balls Invited Comings. The Institute for Physics at the University of Ameterdam, Ameterdam (NII)	Luna 0 2017
31.	Invited Seminar, The Institute for Physics at the University of Amsterdam, Amsterdam (NL) A soft engine powered by a single object and made from a single material	Julie 9, 2017
30	Invited Seminar, The University of Chicago, Chicago (USA)	Mar 8, 2017
50.	A soft engine powered by a single object and made from a single material	14141 0, 2017
29.	Invited Seminar, Saint-Gobain Recherche, Paris (FR)	Dec 15, 2016
	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	,
28.	Invited Seminar, The MSI at the University of Oregon, Eugene (USA)	Nov 18, 2016
	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	
27.	*Invited Colloquium, Deutsches Zentrum für Luft und Raumfahrt, Cologne (DE)	Nov 8, 2016
	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	
26.	Invited Talk, This week's discoveries, Leiden University, Leiden (NL)	Oct 25, 2016
	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	T 107 0046
25.	*Invited Short Talk, The Granular Matter Gordon Research Conference, Easton (USA)	Jul 27, 2016
24	Animating granular matter with the elastic Leidenfrost effect Invited Sominar PMMH Laboratory at the ESPCI Paris (ER)	Iuno 25 2016
44.	Invited Seminar, PMMH Laboratory at the ESPCI, Paris (FR) Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	June 25, 2016
23	Invited Seminar, Department of Physics at the Université Paris Diderot, Paris (FR)	June 21, 2016
20.	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	juiic 21, 2010
	Zancerie, Zanierie, Foremiece, Zaner Zeener. The emprioring Physics of Stantaun Procedurging	

22.	Invited Seminar, Physics Department at Wageningen University, Wageningen (NL) Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	Apr 14, 2016
21.	Invited Seminar, Max Planck Institute, Göttingen (DE)	Jan 15, 2016
	Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	
20.	Invited Seminar, Leiden University Department of Physics, Leiden (NL) Rabbits, Planets, Volcanoes, Dust Devils: The Surprising Physics of Granular Tribocharging	Oct 29, 2015
19.	* Keynote Talk, SB9 Planetary Rings, European Planetary Science Congress, Nantes (FR)	Oct 1, 2015
	Tribocharging and charged interaction in same-material, microscopic grains	
18.	*Invited Talk, European Solid Mechanics Conference, Madrid (ES)	Jul 7, 2015
	Multishape Origami Metasheets	
17.	*Invited Talk, The Southern Granular Matter Workshop, Santiago (CL)	Nov 25, 2015
	Tribocharging and charged interactions in same-material, microscopic grains	
16.	*Invited Talk, The 18th Dutch Soft Matter Meeting, Eindhoven (NL)	June 3, 2015
	Multishape Origami Metasheets	
15.	Invited Seminar, The Otto-von-Guericke-Universität Magdeburg, Magdeburg (DE)	June 1, 2015
	How to walk on water (and cornstarch)	,
14.	Invited Seminar , The Physics Department at UMass Amherst, Amherst (USA)	Mar 11, 2015
	The delicate dance of charged grains in zero gravity	,
13.	Invited Seminar , The Department of Physics at Cornell University, Ithaca (USA)	Mar 9, 2015
	The delicate dance of charged grains in zero gravity	•
12.	Invited Seminar, Leiden University Department of Physics, Leiden (NL)	Sept 25, 2014
	Multishape Origami Metasheets	1 ,
11.	Invited Seminar, The Institute for Physics at the University of Amsterdam, Amsterdam (NL)	June 9, 2014
	How to walk on water (and cornstarch)	,
10.	Invited Seminar, The Physics of Fluids Group at the University of Twente, Enschede (NL)	Jan 8, 2014
	How to walk (run) on water (and cornstarch)	,
9.	Invited Seminar, École Normal Supérieure, Paris (FR)	Mar 19, 2014
	Why you can walk (run) on water (and cornstarch)	,
8.	Invited Seminar, The Soft Matter Seminar, Leiden University, Leiden (NL)	Oct 30, 2013
	Impact-activated solidification of cornstarch and water suspensions	
7.	Invited Colloquium, The Department of Physics at St. Olaf's College, Northfield (USA)	Sept 18, 2013
	Why you can run on water (and cornstarch)	• '
6.	*Invited Talk, 64th Annual Starch Meeting, Detmold (DE)	Apr 24, 201 3
	Impact-activated solidification of a dense cornstarch suspension	
5.	Panelist, Cabinet on Narrative, The Arts-Science Initiative, Chicago (USA)	Apr 12, 2013
4.	Invited Seminar, The Soft Matter Seminar, Leiden University, Leiden (NL)	Apr 2, 2013
	Why you can run on water (and cornstarch)	-
3.	Invited Seminar, PMMH Laboratory at ESPCI, Paris(FR)	Mar 29, 2013
	Impact-activated solidification of dense suspensions	
2.	*Invited Talk, March Meeting, Baltimore (USA)	Mar 22, 2013
	Impact-activated solidification of dense suspensions	•
1.	Invited Seminar, The University of Chicago, Chicago (USA)	Mar 6, 2012
	invited Senimal, The Oniversity of Chicago, Chicago (OSA)	Wai 0, 2012
	Same material tribocharging in insulating grains	Wiai 6, 2012

CONFERENCES, WORKSHOPS & SCHOOLS

(*invited)

Gordon Granular Matter Research Seminar, Easton (USA)	Jul 2018
Conference co-chair with Cacey Bester	
European Solid Mechanics Congress, Bologna (IT)	Jul 2018
Contributed talk: Bouncing, screaming, floating: motion control with vaporizable solids	
APS March Meeting, Los Angeles (USA)	Mar 2018
Contributed talk: Why won't thes balls stop jumping and screeching?	
Fundamental Problems in Active Matter, Aspen Center for Physics, Aspen (USA)	Jan 2018
Awarded Block Prize for Outstanding Young Researcher	-

Form and Deformation in Solid and Fluid Mechanics, Cambridge (UK) Contributed talk: Coupling the Leidenfrost effect and elastic deformations to power sustained	Sep 2017
bouncing Programmable Matter Workshop, ESPCI Paris (FR)	June 2017
Contributed talk: A soft engine embedded into a single object made from a single material	June 2017
	May 2017
	Mar 2017
Contributed talk: Animating soft matter with the elastic Leidenfrost effect	11141 =017
Chair of Focus Session C16: Mechanical Singularities in Soft Matter	
	Jan 2017
Contributed talk: <i>Animating soft matter with the elastic Leidenfrost effect</i>	Juli 2017
	Nov 2016
Contributed talk: Animating impacting spheres with the elastic Leidenfrost effect	1407 2010
Society of Engineering Science 53 Annual Technical Meeting, College Park (USA)	Oct 2016
Contributed talk: Animating soft matter with the elastic Leidenfrost effect	Oct 2010
Contributed talk: Geometry driven design of multistable origami metamaterials	
	Aug 2016
	Aug 2010
Invited talk: Animating granular matter with the elastic Leidenfrost effect The Granular Matter Gordon Research Seminar Faster (USA)	A == 2016
	Aug 2016
Discussion leader and keynote session chair: Soft granular matter	N/ 2016
	May 2016
0, , ,	Mar 2016
Contributed talk: The role of geometry in 4-vertex origami mechanics	T 2016
	Jan 2016
*Southern Granular Matter Workshop, Santiago (CL)	Dec 2015
Invited talk: Tribocharging and charged interactions in same-material, microscopic grains	
19th Dutch Soft Matter Meeting, Utrecht (NL)	Oct 2015
*European Planetary Science Congress, Nantes (FR)	Oct 2015
Keynote talk: Tribocharging and charged interaction in same-material, microscopic grains	
Metamorphose: Metamaterials 2015, Oxford (UK)	Sept 2015
Contributed talk: Multishape origami metasheets	
*European Solid Mechanics Conference, Madrid (ES)	Jul 2015
Invited talk: Multishape origami metasheets	
Designer Matter Workshop, Amsterdam (NL)	June 2015
Contributed talk: Multistable origami metamaterials	
	June 2015
	Apr 2015
Contributed talk: Multistable origami metamaterials	•
	Mar 2015
Contributed talk: Multistable origami metamaterials	
Granular Matter in Low Gravity, Erlangen (DE)	Mar 2015
Contributed talk: Freely-falling granular streams: a zero-g playground for charged grain	
interactions	
	Jan 2015
Contributed talk: <i>Origami multistability: from single vertices to metasheets</i>	Juli 2010
	Nov 2014
Soundbyte: Crumpled paper is a metamaterial	1107 2014
	Nov 2014
Contributed talk: Designing the energy landscape of folded structures	140V 2014
The 6th International Meeting on Origami in Science, Mathematics, and Education, Tokyo (JP)	Aug 2014
Guerilla talk: Designing the energy landscape of folded structures	Aug 2014
	Mary 2014
	May 2014
Soundbyte: Multistability in origami 4-vertices	Mar. 2014
	May 2014
Contributed talk: Designing the energy landscape of folded structures	M0014
	Mar 2014
Contributed talk: Bad origami	T 8011
Physics at Veldhoven, Veldhoven (NL)	Jan 2014

*64th Annual Starch Meeting, Dortmund (DE)	Apr 2013
Invited talk: <i>Impact-activated solidification of a dense cornstarch suspension</i> *APS March Meeting, Baltimore (USA)	Mar 2013
Invited talk: Impact-activated solidification of dense suspensions	
MarchCOM Workshop on Complex Media, Havana (CU)	Mar 2012
Contributed talk: Why you can walk on a suspension of cornstarch and water	
Electrostatics Society of America Annual Conference, Cleveland (USA)	June 2011
Contributed talk: Direct measurement of size-dependent charging in chemically identical grains	
APS March Meeting, Dallas (USA)	Mar 2011
Contributed talk: Granular electrophoresis: in situ measurement of charge and size in	
freely-falling grains	
The Granular Matter Gordon Research Conference, Colby College (USA)	June 2010
Poster: Granular electrophoresis: in situ measurement of charge and size in freely-falling	
grains	
APS DFD Meeting, Minneapolis (USA)	Nov 2009
Contributed talk: Temperature fluctuations in a freely-falling granular stream	
APS March Meeting, Pittsburgh (USA)	Mar 2009
Contributed talk: Clustering in a dense, freely-falling granular streams	
APS DAMOP Meeting, State College (USA)	May 2008
Poster: Combined experimental approach for magneto-optical trapping of Li and Cs atoms	
Midwest Cold Atom Workshop, Madison (USA)	Nov 2007
Poster: Combined experimental approach for magneto-optical trapping of Li and Cs atoms	

IN THE NEWS

(a selection, high visibility*)

Een ongewoon Leidenfrosteffect, Nederlandse Tijdschrift voor Natuurkunde, June (2018) **Pancake Science**, Amsterdam Science, May (2018) **Physicist saw a video on IFLScience and ended up writing a scientific study about it**, *IFLS*,

October 3 (2017)

*Dancing balls lead to a physics discovery, Discover, July 26 (2017)

Springende gelballetjes piepen in de koekepan, NRC Handelsblad, July 26 (2017)

Waarom balletjes op een hete plaat piepen en springen, Engineers Online, July 26 (2017)

Hüpfendes hydrogel als mikroantrieb, pro-physik.de, July 26 (2017)

Waarom deze balletjes gillen en stuiteren in een hete pan, Kijk Magazine, July 25 (2017)

*These bouncing balls on a hot pan led to a new physics discovery, The Washington Post, July 24 (2017)

Leidenfrost-Effekt lässt weiche Kügelchen hüpfen, Welt der Physik, July 24 (2017)

Elastic Leidenfrost enables soft engines, Phys.org, July 24 (2017)

*Van grap en YouTube-hit tot Nature-publicatie: waarom hydrogelballetjes stuiteren in een pan, De Volkskrant, July 24 (2017)

Screaming gel balls reveal a way to power soft but noisy robots, New Scientist, July 24 (2017)

Let's power robots with shrieking balls, *Inverse*, July 24 (2017).

*Doorbraak in de aandrijving van zachte robots, RTL4 Nieuws Holland, July 24 (2017)

Físicos y astrónomos ganan fondo para estudiar la formación de planetas, *Noticias de la Universidad de Chile*, December 22 (2016)

Leidenfrost effect puts perpetual bounce into Hydrogel Beads, Physics Central, March 29 (2016)

Hydrogel beads key recipe for sustained bouncing, Inside Science News, March 24 (2016)

*Granular matter: charges dropped, Frank Spahn and Martin Seiβ, Nature Physics 11, 709-710 (2015)

Simulan en laboratorio como empiezan a formarse los planetas, Tendencias Científicas, August 19 (2015)

Creating 'Planets' in a laboratory: How particles clump together to create new worlds observed for the first time, Daily Mail, August 6 (2015)

Lab experiment mimics early-stage planet formation process, UChicago News, August 3 (2015)

Watch: Clumps of particles mimic how planets form, Futurity, August 3 (2015)

Focus: Electrons not the cause of charged grains, APS Focus, May 30 (2014)

We still don't know how static electricity works, Gizmodo, May 21 (2014)

Static electricity defies simple explanation, Science News, May 15 (2014)

Viral video shows people walking and dancing on liquid, Business Insider, January 11 (2014)

Review of Scientific Instruments Podcast, June 1 (2013)

Clearing up the oobleck physics mystery, Scientific Computing, July 23 (2012)

*Geek party! How to run across a pool of goo, Time, July 18 (2012)

*Running on Physics: Why you can walk on Water and Cornstarch, Discover, July 17 (2012)

How to walk on water, Science News, July 16 (2012)

Mystery solved: why impact turns liquid solid, Futurity, July 13 (2012)

Why can we walk on custard?, Chemistry World, July 12 (2012)

*Cornflour's gooey trick revealed, BBC, July 12 (2012)

Messy experiment cleans up physics mystery of cornstarch, UChicago News, July 12 (2012)

*How to walk on custard, Nature Podcast, July 12 (2012)

Über Wasser(-Stärke-Gemisch) gehen..., pro-physik.de, July 11 (2012)

*Cornstarch physics is shear nonsense, Science News, July 11 (2012)

Defying gravity: when strange liquids act like solids, Wired, July 11 (2012)

How to walk on water with help from Dr. Seuss's ooblek, Live Science, July 11 (2012)

A striking experiment shows how you can run on quicksand, Ars Technica, July 11 (2012) *The reason you can walk on water (and cornstarch), Popular Mechanics, July 11 (2012)

*Soft matter: running on cornflour, Martin van Hecke, Nature 487, 174-175 (2012)

Clever Apes: Uncanny Slime, WBEZ Chicago Clever Apes Blog, November 3 (2011)

Sand found to flow like water, Live Science, July 1 (2009)

Granular media: structures in sand streams, Detlef Lohse and Deveraj van der Meer,

Nature 459, 1064-1065 (2009)

STUDENTS MENTORED

Bas Diphoorn, Eindhoven University of Technology Bachelor's Student Summer 2017 Thesis: Synthesis of hydrogel bouncing balls Hans Frijters, Leiden University Master's Student Summer 2017 Thesis: Metagels Antal Zuiderwijk, Leiden University Master's Student Spring 2017 Thesis: The Leidenfrost effect in soft solids Agustín Iniguez Rabago, Delft University Master's Student Summer 2016 Project: Hydrogel fabrication and molding Jasper van der Vaart, Leiden University Master's Student Winter 2016 Thesis: Determining the effect of bending on origami structures Bert Visscher, Leiden University Bachelor's Student Spring 2015 Thesis: *Auxetic draping* Rémi Menaut, École Normale Supérieure de Lyon Master's Student Fall 2013 Thesis: Multistable metasheet based on origami Leah K. Roth, University of Chicago REU student Summer 2012 Project: Dynamic jamming in 2D Elena Ruyter, Summer high school student Summer 2011 Project: Granular streams mini tutorial Gustavo Castillo, University of Chile exchange student Winter 2011 Project: Granular tribocharging experiments Estefania Vidal, University of Chile exchange student Winter 2011 Project: Granular tribocharging simulations Alison Patteson (Koser), University of Chicago REU student Summer 2010 Project: *Granular breakup experiments* Suomi Ponce Heredia, University of Chile exchange student Winter 2009 Project: Granular breakup experiments

TEACHING EXPERIENCE

Teaching Assistant with Henry Frisch, The University of Chicago, Honors E&M Teaching Assistant with Henry Frisch, The University of Chicago, Honors Waves Teaching Assistant with Mark Oreglia, The University of Chicago, Honors Waves Teaching Assistant with Ed Blucher, The University of Chicago, Mechanics Teaching Assistant with Doug Toussaint, The University of Arizona, Advanced E&M Tutor, Math and Science Center at The University of Arizona

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