

Thomas Gibaud

Research scientist – CNRS

Curriculum Vitae

✉ Laboratoire de Physique, Ens de Lyon,
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Links :  -  -  -  -  - 

⇒ *underlined cyan* : active link

Employments

Research scientist, CR (CNRS), *Ens de Lyon, Fr* 12/2011 → present
Invited scholar at *Brandeis University* (2 months, 2014)
Invited lecturer at *East China Normal University* (1 month, 2013)
Invited scholar at *Brandeis University* (4 months, 2012)
Post-Doc with Z. Dogic, *Brandeis University, USA* 01/2009 → 12/2011
ATER (100%), *Ens de Lyon, Fr* 09/2007 → 01/2009
Post-Doc with S. Manneville and Teaching Assistant
Teaching Assistant, *Université de Fribourg, CH* 09/2004 → 09/2007

Education

Habilitation à diriger les recherches, *Université de Lyon, Fr* 2018
PhD in Physics with P. Schurtenberger, *Université de Fribourg, CH* 2008
Agrégation in Physics, *Université J. Fourier, Grenoble, Fr* 2004
Master in Materials Sc., *UPMC-X-ENS-Centrale-ESPCI, Paris, Fr* 2002
Bachelor in Physics, *Université du Maine, Le Mans, Fr* 2001

Research

Experiments in soft condensed-matter physics – *Lego with bio-colloids*. I use, purify or engineer organic and living matter to design smart colloids which serve as building blocks for soft materials with fine tuned dynamics and structures. I then study the material response to external solicitations using devices such as rheometer, optical tweezers or high power ultrasound. I also take advantage of the building blocks built-in sensitivity to pH or temperature to continuously morph the material properties. Those materials are not only a venue to study self-assembly, gels and active matter but they also mimics phenomena observed in biology or hard condensed matter and foster the emergence of ideas in food science.

selected Publications : *PRX* **8**, 031006 (2018) – *PNAS* **114**, E3376 (2017) – *Sci. Adv.* **1**, e1500608 (2015)
Soft Matter **13**, 2643 (2017) – *Soft Matter* **12**, 1701 (2016) – *Nature* **481**, 348 (2012)

Scientific production – 38 peer reviewed articles (first author : 17 and corresponding author : 16), 6 invited talks and 29 contributed talks/posters in international conferences, 41 invited seminars.

Google Scholar (2/7/2019) : 1091 citations, h-index=16.

Grants – total : 10 as a PI and 2 as a collaborator, ~ 1.0 M€
• ANR JCJC, (2019-2023), 230 k€
• Grant région Auvergne-Rhône-Alpes (2017-2022), 256 k€
• CNRS Emergence 2016, 10 k€
• ANR-11-PDOC-027, (2012-2015), 350 k€

Supervision and co-Supervision – 16 bachelor/master students, 3 PhDs and 4 post-docs. 3 of the post-docs got an academic position following our collaboration.

Membership :

Société Française de Physique.
European Society of Rheology.

selected Services :

- Local committee organizer for the conference CFCL2017 – systèmes anisotropes auto-organisés, Lyon (2017).
- Editorial board member for the journal *Scientific Reports* (2017-present)
- Referee, ~ 10 articles/year .
- Organizer of the weekly physics seminar at Brandeis University (2009-2011).

Teaching

Since 2012, I teach ~ 64h/year at the Ens de Lyon in the bachelor/master *Sciences de la Matière*.

During my ATER position, I taught 140h/year at the at the Ens de Lyon in the *agrégation de physique*.

During my PhD, I taught 70h/year and set up physics lab for bachelor students at the université de Fribourg (CH).

Outreach : I setup and enlive physics experiments for children at the Discovery Museums of Acton, Ma, USA (2011) and in a Kindergarden class at Bulle, CH (2007). I co-organized the 2005 Einstein year at the physics dept of the University of Fribourg, CH and for the occasion presented two 45 min Physics shows targetted toward the general public.

Non Profit Organisations

Vice president (2017-2019) and President (2019-) at P'tits Bouts – nursery

Treasurer at ENplaStik – art association (2013-2016)

Winter School instructor and leader – MIT Outing Club (2010-2011)

Cofounder of Roul'Mans – Roller blading association (1997-2001)





Sailing Teacher for the Fédération Française de Voile (1997-2001)

Personal

Born in Le Mans (Fr), 1979 – French.

Civil Union with F. Rhode, 2 children.

References

-  S. Manneville, Ens de Lyon
-  Z. Dogic, Brandeis University
-  D. Bartolo, Ens de Lyon
-  P. Schurtenberger, Lund University