

Biographical Sketch

Jonathan T. Pham

Chemical and Materials Engineering
University of Kentucky

(a) Professional preparation

<i>University / Institute</i>	<i>Major / Topic area</i>	<i>Year(s)</i>
The Ohio State University	Materials Science & Engineering	B.S., 2010
University of Massachusetts Amherst	Polymer Science & Engineering	Ph.D., 2015
Max Planck Institute for Polymer Research	Physics at Interfaces	Postdoc, 2015-2017

(b) Appointments

University of Kentucky	Assistant Professor	2017-current
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(c) Publications

Five closely related publications

1. J.T. Pham, M. Paven, S. Wooh, T. Kajiya, H-J. Butt, D. Vollmer. "Spontaneous jumping, bouncing and trampolining of hydrogel drops on a heated surface." *Nature Communications*, **8**, 905, (2017).
2. J.T. Pham, F. Schellenberger, M. Kappl, H-J. Butt. "From elasticity to capillarity in soft materials indentation." *Physical Review Materials*, **1**, 015602, (2017).
3. N. Crawford, T. Endlein, J.T. Pham, M. Riehle, W.J.P. Barnes. "When the going gets rough – studying the effect of surface roughness on the adhesive abilities of tree frogs." *Beilstein Journal of Nanotechnology*, **7**, 2116-2131, (2016).
4. J.T. Pham, L. Xue, A. del Campo, M.J. Salierno. "Guiding cell migration with microscale stiffness patterns and undulated surfaces." *Acta Biomaterialia*, **38**, 106-115, (2016).
5. J.T. Pham, J. Lawrence, D.Y. Lee, G.M. Grason, T. Emrick, A.J. Crosby. "Highly stretchable nanoparticle helices through geometric asymmetry and surface forces." *Advanced Materials*, **25**, 6703-6708, (2013).

Five other significant publications

6. D. Wang, F. Schellenberger, J.T. Pham, H-J. Butt, S. Wu. "Orthogonal photo-switching of supramolecular patterned surfaces." *Chemical Communications*, **54**, 3404-3406, (2018).
7. H-J. Butt, J.T. Pham, M. Kappl. "Forces between a stiff and a soft surface." *Current Opinion in Colloid and Interface Science*, **27**, 82-90, (2017).
8. L. Xue, J.T. Pham, J. Itturi, A. del Campo. "Stick slip friction of PDMS surfaces for bioinspired adhesives." *Langmuir*, **32**, 2428-2435, (2016).
9. J.T. Pham, A. Morozov, A.J. Crosby, A. Linder, O. du Roure. "Deformation and shape of flexible, microscale helices in viscous flow." *Physical Review E*, **92**, 011004(R), (2015).

10. E.J. Laprade, R. Long, J.T. Pham, J. Lawrence, T. Emrick, A.J. Crosby, C-Y. Hui, K.R. Shull. "Large deformation and adhesive contact studies of axisymmetric membranes." *Langmuir*, **29**, 1407-1419, (2013).

(d) Synergistic activities

- Served as a reviewer for the National Defense Science and Engineering (NDSEG) graduate fellowship program (2018)
- Conducted/supervised hands-on experiments for the Lt. Governor's STEM Challenge for Girls at a local middle school and for a Women in Engineering summer camp at University of Kentucky (2018)
- Co-organized a 4 day summer school (2015) titled "Properties of soft matter – insight into solid mechanics and rheology" at Johannes Gutenberg University of Mainz. Lectured for 2 out of 4 days
- Peer reviewer for Elsevier, MDPI, American Chemical Society, Springer Nature, Royal Society of Chemistry, and American Physical Society journals.