Martin Szyld

Welcome to my home page!

Contact Information

Oficina E-25 - Departamento de Matemática (http://cms.dm.uba.ar)

Facultad de Ciencias Exactas y Naturales (http://exactas.uba.ar) ,
Universidad de Buenos Aires (http://www.uba.ar)

(C1428EHA) Pabellón I - Ciudad Universitaria - Buenos Aires - Argentina

Tel: (5411) 4576 3390/6 - E-mail: mszyld@dm.uba.ar (
mailto:mszyld@dm.uba.ar)

I'm currently a JTP (Lecturer), and also a Postdoctoral fellow of CONICET
(http://www.conicet.gov.ar) .

Research Interests

- Category theory. In particular higher category theory.
- Representation theory. In particular Galois and Tannaka theories.
- Model 2-categories and its applications.

Publications

- 2017, A general limit lifting theorem for 2-dimensional monad theory, to appear in Journal of Pure and
  Applied Algebra. arXiv:1702.03303 (http://arxiv.org/abs/1702.03303) .
- 2016, On the notion of flat 2-functors (joint with Descotte M.E. and Dubuc E. J.) arXiv: 1610.09429 (
  http://arxiv.org/abs/1610.09429) .
- 2016, A construction of certain weak colimits and an exactness property of the 2-category of categories
  (joint with Descotte M.E. and Dubuc E. J.). arXiv:1610.02453 (http://arxiv.org/abs/1610.02453) .
- 2016, Tannaka theory over sup-lattices and descent for topoi (joint with Dubuc E. J.), Theory and
  Applications of Categories volume 31, p. 852-906. Freely available at TAC website (
  http://www.tac.mta.ca/tac/) .
- 2013, A Tannakian Context For Galois Theory (joint with Dubuc E. J.), Advances In Mathematics
  volume 234, p. 528-549. arXiv:1110.6411 (http://arxiv.org/abs/1110.6411) .

Talks

Below is some information on most of the talks I gave. I agree with Dr Z's opinion (
http://www.math.rutgers.edu/~zeilberg/Opinion60.html) on blackboard talks, so I often don't use slides,
and when I do, they don't hold that much information. But feel free to contact me (
mailto:mszyld@dm.uba.ar) for more info on any of the talks below!

- 2017: I gave a talk presenting my limit lifting paper at a plenary session of the CT2017 - International
  Category Theory Conference (http://www.mat.uc.pt/~ct2017/) , at UBC (http://www.ubc.ca) in
  Vancouver, Canada (abstract (szyld_lifting_abstract_CT17.pdf) , slides (
  szyld_lifting_slides_CT17.pdf)).
- 2017: I was invited to give a talk presenting my limit lifting paper at XXVI ERAG (
  http://www.mate.unlp.edu.ar/erag/) at ICAS (http://www.icas.unsam.edu.ar/index.html) in Buenos

Aires, Argentina (spanish abstract (szyld_lifting_abstract_ERAG.pdf) , spanish slides (szyld_lifting_slides_ERAG.pdf)).

- 2017: I gave a talk presenting my limit lifting paper at the 5th Workshop on Categorical Methods in Non-Abelian Algebra (http://www.mat.uc.pt/~mmc/mcana/MCANAfifthworkshop.html) , at UCL (http://uclouvain.be/index.html) in Louvain-la-Neuve, Belgium (abstract (szyld_liftingtheorem_abstract.pdf) , slides (szyld_lifting_UCL.pdf)).
- 2017: I gave a talk at the Catégories supérieures, polygraphes et homotopie (http://www.irif.fr/gt/cat/index) seminar at Paris Diderot (http://www.univ-paris-diderot.fr/) , France, on my limit lifting paper (abstract (szyld_liftingtheorem_abstract.pdf)).
- 2016: I gave a talk at OU (http://www.ou.edu) Algebra and Representation Theory Seminar, in Oklahoma, USA, "On flat functors" (abstract (OU_abstract.pdf)).
- 2016: I gave a talk at UCO (http://www.uco.edu/) Math club in Oklahoma, USA, "The universal properties that lie behind the objects" (abstract (UCO_abstract.pdf)).
- 2014: I gave a short course on "Classifying Topoi and Galois Theory" (spanish abstract (UNEMAT_Cursillo_Szyld.pdf)) and a conference "Relations in a topos: a new example of a Tannakian category" (spanish abstract (UNEMAT_Conferencia_Szyld.pdf)) at UNEMAT 2014 (http://ciencias.bogota.unal.edu.co/unemat/encuentros-anteriores/2014/) in Bogota, Colombia.
- 2012: I gave a talk at IV Latin American Meeting (http://www.famaf.unc.edu.ar/~ciem/clam2012/) at UNC (http://www.unc.edu.ar/) in Cordoba, Argentina, "Tannakian techniques in topos representation theory" (abstract (abstract_clam_szyld.pdf))
- 2011: I gave a conference at XXI Encuentro Rioplatense de Algebra y Geometria at CMAT (http://www.cmat.edu.uy/) in Montevideo, Uruguay, "A Tannakian context for Galois" (slides (ERAG_2011.pdf))
- 2010: I gave the talk "A Tannakian approach to Grothendieck Galois theory" at elENA V (http://www.famaf.unc.edu.ar/~ciem/elenav/index.html) and at the annual UMA reunion (http://www.exa.unicen.edu.ar/uma2010/uma.php) (slides (UMA_2010.pdf)) in Argentina.

Teaching

Always check the links below for updated information on each course.

- 2017, second semester: Matemática 2 (Complementos de Matemática 3 para Física) (http://cms.dm.uba.ar/academico/materias/2docuat2017/matematica2/)
- 2016, second semester: Matemática 2 (Complementos de Matemática 3 para Física) (http://cms.dm.uba.ar/academico/materias/2docuat2016/matematica2/)
- 2016, first semester: Temas básicos de Categorías (mailto:mszyld@dm.uba.ar)
- 2016, summer course: Análisis Matemático I (Biología) (http://cms.dm.uba.ar/academico/materias/verano2016/analisis_matematico_I_B/)
- Previous courses (previous_courses)