

# Rizos Sklinos

## Curriculum vitae

Department of Mathematical Sciences  
Stevens Institute of Technology  
1 Castle Point Terrace  
07030, Hoboken, NJ, USA  
☎ +1 (201) 216-5449  
✉ [rsklinos@stevens.edu](mailto:rsklinos@stevens.edu)  
<http://personal.stevens.edu/~sklinos>

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### Personal Information

Date of Birth October 25, 1980  
Nationality Greek  
Marital Status Married (two children)

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### Education

2008.09 - 2011.10 **Ph.D. in Mathematics**, *University of Leeds, UK.*  
supervisor Professor Anand Pillay  
2006.09 - 2008.08 **M.Sc. in Computation and Algorithms**, *Department of Mathematics, National and Kapodistrian University of Athens, Greece.*  
1998.09 - 2006.06 **B.Sc. in Mathematics**, *Department of Mathematics, National and Kapodistrian University of Athens, Greece.*

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### Academic Positions

2018.09 - present **Lecturer**, *Stevens Institute of Technology, USA.*  
2017.11 - 2018.08 **Visiting Associate Professor**, *Stevens Institute of Technology, USA.*  
2014.09 - 2017.10 **Postdoc**, *Université Claude Bernard Lyon 1, France.*  
2013.09 - 2014.08 **Postdoc (scientific assistant)**, *Westfälische Wilhelms-Universität Münster, Germany.*  
2011.09 - 2013.08 **Postdoc**, *Hebrew University of Jerusalem, Israel.*

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### Scholarships/Awards

2014-2017 **Post-doc financed by labex MILYON**, *Lyon, France.*  
2011-2013 **Golda Meir Postdoctoral Fellowship**, *Hebrew University of Jerusalem, Israel.*  
2008-2011 **School of Mathematics Research Scholarship**, *University of Leeds, UK.*

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## Grants

- 2019 **DFG**, *Individual Research Grant*, Principal Investigator in the project “Hyperbolic geometry in model theory” (\$313,000.00).
- 2020 **NSF**, *Continuing Grant*, Principal Investigator in the project “Model Theory of non-abelian free groups” (\$155,000.00).

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## Research Visits

**University of California at Los Angeles, USA**, 7 - 11 January, 2020.

Visiting Artem Chernikov

**Universidad del país Vasco, Spain**, 29 May - 11 June, 2016.

Visiting Ilya Kazachkov and Montserrat Casals-Ruiz

**Westfälische Wilhelms-Universität Münster, Germany**, 12 - 19 January, 2013.

**Westfälische Wilhelms-Universität Münster, Germany**, 4 - 8 August, 2012.

Visiting Katrin Tent

**University of Strasbourg, France**, 8 - 14 August, 2012.

**University of Strasbourg, France**, 13 - 21 February, 2011.

Visiting Chloé Perin

**The Hebrew University of Jerusalem, Israel**, 3 - 22 July, 2014.

**The Hebrew University of Jerusalem, Israel**, 15 August - 12 September, 2010.

**The Hebrew University of Jerusalem, Israel**, 7 - 18 December, 2009.

Visiting Zlil Sela

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## Invited Talks (Seminars)

- May 2021 **Fields interpretable in the free group (Zoom Talk)**, *Turin-Udine logic seminar*, University of Turin, Italy.
- April 2021 **Fields interpretable in the free group (Zoom Talk)**, *UC Irvine logic seminar*, University of California at Irvine, USA.
- February 2021 **Fields interpretable in the free group (Zoom Talk)**, *New York Group Theory Seminar*, City University New York (CUNY), USA.
- February 2021 **Fields interpretable in the free group (Zoom Talk)**, *Midwest Model Theory Seminar*, University of Illinois at Chicago, USA.
- December 2020 **Model theory of hyperbolic groups (Zoom Talk)**, *Chinese Academy of Science*, AMSS, China.
- January 2020 **Model theory of hyperbolic groups**, *Logic Colloquium*, University of California at Los Angeles, USA.
- December 2019 **Definable fields in the free group**, *Model Theory Seminar*, City University New York (CUNY), USA.
- November 2019 **Nonequational stable groups**, *Logic Seminar*, University of Maryland, USA.
- May 2019 **Nonequational stable groups**, *New York Group Theory Seminar*, City University New York (CUNY), USA.

- February 2019 **Model theory of hyperbolic groups**, *Logic Colloquium*, University of California at Berkeley, USA.
- June 2018 **Limit Groups**, *Logic Seminar*, University of Crete, Greece.
- May 2018 **Fraïssé limits of limit groups**, *Model Theory Seminar*, City University New York (CUNY), USA.
- April 2018 **Homogeneity in the free group**, *New York Group Theory Seminar*, City University New York (CUNY), USA.
- March 2018 **Nonequational stable groups**, *Model Theory Seminar*, City University New York (CUNY), USA.
- November 2017 **Forking in nonabelian free groups**, *Logic Workshop*, City University New York (CUNY), USA.
- March 2017 **Nonequational stable groups**, *Mathematical Logic Seminar*, Hebrew University of Jerusalem, Israel.
- June 2016 **Definable fields in the free group**, *Algebra Seminar*, Universidad del país Vasko, Spain.
- October 2015 **Fields definable in the free group**, *Mathematical Logic Seminar*, Hebrew University of Jerusalem, Israel.
- October 2015 **Forking independence through complexes of curves**, *Algebra and Geometry Seminar*, Université de Caen, France.
- April 2015 **Forking independence via complexes of curves**, *Spectral Theory and Geometry Seminar*, Université de Grenoble, France.
- March 2015 **The finite cover property and non abelian free groups**, *Models and Groups Seminar*, Université Paris VII, France.
- February 2015 **Some model theory of torsion-free hyperbolic groups**, *General logic Seminar*, Université Paris VII, France.
- February 2015 **Forking independence via complexes of curves**, *Ergodic Theory Seminar*, Université de Rennes 1, France.
- May 2014 **Ampleness and pseudo-Anosov homeomorphisms**, *Lyon Logic Seminar*, Université Claude Bernard Lyon 1, France.
- September 2013 **Free Groups from a Model Theoretic Perspective**, *Logic Seminar*, University of Crete, Greece.
- May 2012 **Geometric Thoughts on Stable Groups**, *Technion Geometry and Topology Seminar*, Technion Israel Institute of Technology, Israel.
- April 2012 **Geometric Thoughts on Stable Groups**, *MPLA Logic Seminar*, National and Kapodistrian University of Athens, Greece.
- March 2012 **Geometric Thoughts on Stable Groups**, *Bar-Ilan Algebra Seminar*, Bar-Ilan University, Israel.
- June 2011 **Some Model Theory of the Free Group**, *Oxford Logic Seminar*, Mathematical Institute, University of Oxford, UK.
- April 2011 **Homogeneity and Applications in the Free Group**, *Geometry, Topology and Group Theory Seminar*, Westfälische Wilhelms-Universität Münster, Germany.
- March 2011 **Homogeneity and Forking in the Free Group**, *Lyon Logic Seminar*, Université Claude Bernard Lyon 1, France.

October 2010 **Homogeneity in the Free Group**, *Joint Leeds-Manchester Model Theory Seminar*, University of Leeds, UK.

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### Invited Talks (Conferences)

- June 2021 **Fields interpretable in the free group (Zoom Talk)**, *14th International Summer School-Conference on the occasion of the 75th birthday of Professor Bruno Poizat*, Erlagol, Russia.
- January 2020 **Forking in the free group**, *Model Theory: groups, geometry, and combinatorics*, MFO, Oberwolfach, Germany.
- July 2019 **Elementary theories of hyperbolic groups**, *Summer Meeting of Young Researchers in Mathematics*, National and Kapodistrian University of Athens, Greece.
- May 2019 **Elementary embeddings in hyperbolic groups**, *2019 ASL North American Annual Meeting*, City University New York (CUNY), USA.
- April 2019 **Fraïssé constructions in the free group**, *Midwest Model Theory Day*, University of Illinois at Chicago, USA.
- June 2018 **Limit groups**, *First Congress of Greek Mathematicians*, National and Kapodistrian University of Athens, Greece.
- December 2017 **Some model theory of nonabelian free groups**, *Manhattan Algebra Day*, City University New York (CUNY), USA.
- July 2017 **Some model theory of the free group**, *Model Theory*, Będlewo, Poland.
- May 2016 **Definable fields in the free group**, *Antalya Algebra Days XVIII*, Ali Nesin Mathematical Village, Turkey.
- March 2016 **Definable fields and centralisers in the free group**, *Models and Groups, İstanbul 6*, İMBM, İstanbul, Turkey.
- January 2016 **Fields definable in the free group**, *Model Theory: groups, geometry, and combinatorics*, MFO, Oberwolfach, Germany.
- December 2015 **Corps définissable dans le groupe libre**, *Géométrie et Théorie des Modèles*, Paris, France.
- June 2015 **Some model theory of hyperbolic groups**, *10th Panhellenic Logic Symposium*, Samos, Greece.
- March 2015 **Fields definable in the first order theory of the free group**, *Models and Groups, İstanbul 4*, İMBM, İstanbul, Turkey.
- January 2015 **Forking independence via complexes of curves**, *Journée de l'équipe algèbre, géométrie et logique*, Lyon, France.
- March 2014 **Diophantine Geometry over Free Groups (three lectures tutorial)**, *Models and Groups, İstanbul 2*, İMBM, İstanbul, Turkey.
- June 2013 **Merzlyakov-type Theorems after Sela (three lectures tutorial)**, *Model Theory 2013*, Ravello, Italy.
- September 2013 **On the Superstable Part of the Free Group**, *Models and Groups, İstanbul 1*, İMBM, İstanbul, Turkey.
- January 2013 **Hyperbolic Towers in the Free Group**, *Model Theory: Groups, Geometry, and Combinatorics*, MFO, Oberwolfach, Germany.

November 2011 **Some Model Theory of the Free Group**, *Model Theory of Groups (Interaction between Model Theory and Geometric Group Theory)*, CIRM, Luminy, France.

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## Teaching Experience

Stevens Institute of Technology

- Spring 2021 **Linear Algebra.**  
Course Instructor
- Fall 2020 **Linear Algebra.**  
Course Instructor
- Spring 2020 **Linear Algebra**, *Graduate Course.*  
Course Instructor
- Spring 2020 **Differential Equations.**  
Course Instructor
- Fall 2019 **Calculus.**  
Course Instructor
- Summer 2019 **Differential Equations.**  
Course Instructor
- Spring 2019 **Differential Equations.**  
Course Instructor
- Fall 2018 **Calculus.**  
Course Instructor
- Spring 2018 **Differential Equations.**  
Course Instructor
- Fall 2017 **Numerical Analysis**, *Graduate Course.*  
Course Instructor

University of Münster

- Spring 2014 **Seminar: Outer space and other complexes (curve complex and sphere complex).**  
Assisting students in reading papers and giving talks
- Fall 2013 **Geometric Group theory.**  
Teaching Assistant

University of Leeds

- Fall 2009 **Elementary Analysis and Geometry.**  
Teaching Assistant
- Spring 2009 **Introductory Linear Algebra.**  
Teaching Assistant
- Fall 2008 **Mathematical Logic 1.**  
Teaching Assistant

University of Athens

- Spring 2008 **Computational Complexity**, *Graduate Course.*  
Teaching Assistant

Spring 2008 **Set Theory**, *Graduate Course*.

Teaching Assistant

Fall 2007 **Mathematical Logic**, *Graduate Course*.

Teaching Assistant

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## Student Supervision

Current:

### **Master Thesis.**

*Bojue Wang* (started Spring 2021).

Past:

### **Master thesis.**

*Benjamin Brück* on "Weight in standard and non-standard models of the theory of free groups" (graduated 2016).

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## Publications

Books

[1] Groups and Model Theory, edited by O. Kharlampovich and R. Sklinos, *de Gruyter*, 2021.

Papers published or accepted for publication

[2] C. Perin and R. Sklinos. Forking and JSJ decompositions in the Free Group II. To appear in the *J. Lond. Math. Soc. (2)*, 2020.

[3] J. de la Nuez González, C. Perin and R. Sklinos. Some lower bounds on Shelah rank in the free group. To appear in the *Ann. Pure Appl. Logic*, 2020.

[4] A. Byron and R. Sklinos, Definable fields in the free group. *Trans. Amer. Math. Soc. Ser. B*, 6: 297–345, 2019.

[5] O. Kharlampovich, A. Miasnikov and R. Sklinos. Fraïssé limits of limit groups. *J. Algebra*, 545:300–323, 2019.

[6] R. Sklinos, The free group does not have the finite cover property. *Israel J. Math.*, 227(2): 563–595, 2018.

[7] V. Guirardel, G. Levitt and R. Sklinos. Elementary equivalence vs commensurability in hyperbolic groups. *Trans. Amer. Math. Soc.*, 371(5):3397–3416, 2019.

[8] A. Pillay and R. Sklinos. The free group has the dimensional order property. *Bull. Lond. Math. Soc.*, 49(1):89–94, 2017.

[9] C. Perin and R. Sklinos. On the (non) superstable part of the free group. *Math. Log. Quart.*, 62(1–2):88–93, 2016.

[10] A. Pillay and R. Sklinos. Saturated free algebras revisited. *Bull. Symb. Log.*, 21(3):306–318, 2015.

- [11] D. Palacín and R. Sklinos. On superstable expansions of free abelian groups. *Notre Dame J. Form. Log.*, 59(2):157–169, 2018.
- [12] R. Sklinos. Ampleness and pseudo-Anosov homeomorphisms in the free group. *Turkish J. Math.*, 39(1):63–80, 2015.
- [13] C. Perin, A. Pillay, R. Sklinos, and K. Tent. On Groups and Fields Interpretable in Torsion-Free Hyperbolic Groups. *Münster J. of Math.*, 7(2):609–621, 2014.
- [14] C. Perin and R. Sklinos. Forking and JSJ decompositions in the Free Group. *J. Eur. Math. Soc. (JEMS)*, 18(3):1983–2017, 2016.
- [15] C. Perin and R. Sklinos. Homogeneity in the Free Group. *Duke Math. J.*, 161(13):2635–2668, 2012.
- [16] R. Sklinos. On the Generic Type of the Free Group. *J. of Symbolic Logic*, 76(1):227–234, 2011.

Papers published in peer-reviewed conference proceedings

- [17] L. Louder, C. Perin, and R. Sklinos. Hyperbolic Towers and Independent Generic Sets in the Theory of Free Groups. *Notre Dame J. Form. Log.*, 54(3-4):521–539, 2013.

Papers published in *non* peer-reviewed seminar proceedings

- [18] R. Sklinos. Déviation et complexe des courbes (in French). *Actes du séminaire de théorie spectrale et géométrie*, 32 (2014-2015), 163–167.

Papers submitted for publication

- [19] I. Müller and R. Sklinos. Nonequational stable groups. Available at arXiv:1703.04169 [math.LO], 2017.
- [20] V. Guirardel, G. Levitt and R. Sklinos. Towers and elementary theories of hyperbolic groups. Available at arXiv:2007.14148[math.GR], 2020.
- [21] R. Sklinos. Fields Interpretable in the Free Group. Available at arXiv:2012.14468[math.LO], 2021.

Reports

- [22] R. Sklinos (with C. Perin and L. Louder), Hyperbolic towers in the free group, Model Theory: Groups, Geometry, and Combinatorics. Organised by Hrushovski E., Pillay A., Tent K., Wagner F., European Mathematical Society, Oberwolfach Rep. 10(1):5–66, 2013.
- [23] R. Sklinos (with A. Byron), Definable fields in non abelian free groups, Model Theory: Groups, Geometry, and Combinatorics. Organized by Tent K., Wagner F., Ziegler M., European Mathematical Society, Oberwolfach Rep. 13(1):5–50, 2016.

Papers in preparation

- [24] J. Goodrick and R. Sklinos. Generalized H-structures.

[25] V. Guirardel and R. Sklinos. Model Companions and Theories of Torsion-free Hyperbolic Groups.

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## Service

- 2021 **Member of the scientific committee of the 13th Panhellenic Logic Symposium.**
- 2020 **NSF panelist (NSF Division of Mathematical Sciences ).**
- 2019 **Member of the scientific committee of the 12th Panhellenic Logic Symposium.**
- 2018 **Organising Stevens Institute of Technology model theory seminar.**
- 2018 **Member of the organising committee of the Logic and Foundations of Mathematics special day in the First Congress of Greek Mathematicians.**
- 2017 **Member of the scientific committee of the 11th Panhellenic Logic Symposium.**
- Since 2017 **Reviewer for Mathematic Reviews/MathSciNet.**
- 2016 - 2017 **Co-organising Lyon logic seminar.**
- Since 2011 **Referee for various journals including: Proceedings of the London Mathematical Society, Groups Geometry and Dynamics, Journal of Algebra, Annals of Pure and Applied logic, Journal of Symbolic Logic, Notre Dame Journal of Formal Logic.**

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## Languages

- Greek **mother tongue**
- English **fluent**
- French **fluent**