

Martin Polacek – Résumé

		Mobile Phone	+1 (347) 467 1463
		LinkedIn	Martin Polacek at LinkedIn https://www.linkedin.com/in/martin-polacek-86114910a
Address	71-67 Yellowstone Blvd. Forest Hills, 11375 New York	Github	Martin Polacek at GitHub https://github.com/KvitnucaZahradka
		arXiv	Martin Polacek at arXiv http://arxiv.org/abs/1403.6904
		Email	martin.polacek@stonybrook.edu

Education:

- 2011-** Stony Brook University - [YITP institute](#), Theoretical Physics
Ph.D. candidate
- 2008 - 2010** Comenius University in Bratislava - [Faculty of Mathematics, Physics and Informatics](#), Slovakia
summa cum laude MSc. in Theoretical Physics
- 2005 - 2008** Comenius University in Bratislava - [Faculty of Mathematics, Physics and Informatics](#), Slovakia
summa cum laude BSc. in Physics

Main Interests:

- **High energy physics:**
string theory, M and F theory, supergravity, low dimensional supergravity
AdS/CFT correspondence, string dualities, string field theory, double field theory
T-dually extended superspaces, generalised geometry

Job Experience:

- 2006 - 2007** Young Scientist Fellow, Solid State Physics Department at the Comenius University in Bratislava
- **Teaching**
2012 Teaching Assistant for Undergraduate Statistical Physics Course at the Stony Brook University
2011 Teaching Assistant for Undergraduate Mechanics Course at the Stony Brook University
2010 Teaching Assistant for Undergraduate Mathematical Analysis Course at the Comenius University in Bratislava

Awards:

- 2010** Master Thesis of the year 2010, category: physics
- 2010** The winner of the Czech - Slovak Young Scientist competition SVOC, category: physics
- 2005 - 2010** Scholarship for the top 5 % of students at the Comenius University in Bratislava

Papers:

- **Published**

T-duality off shell in 3D Type II superspace, (Martin Polacek, Warren Siegel), [JHEP 1406 \(2014\) 107](#)

Natural curvature for manifest T-duality, (Martin Polacek, Warren Siegel), [JHEP 1401 \(2014\) 026](#)

- **Preprint**

Pre-potential in the $AdS_5 \times S^5$ Type IIB superspace, (Martin Polacek, Warren Siegel), [arXiv:1608.02036](#)

- **Conference print**

A study of lepton flavor violating process in $Z_0 \rightarrow l\bar{l}$ in Minimal Supersymmetric Standard Model, (Tomas Blazek, Martin Polacek), *Master Thesis*

Talks, Workshops and Presentations:

2015 DPF 2015, Ann Arbor, presentation at the Fields and Strings session

2015 APS April Meeting, Baltimore, presentation and served as a chair of quantum gravity session

Computer Skills:

- **Programming Languages**

C++, Java

Python, R, Matlab, shell script

- **Web Development**

Ruby on Rails, html, css, and javascript

Languages:

Native	Slovak, Czech
Professional	English
Intermediate	German

Other Interests:

- **Programming and Statistics**
- **Running, Tennis, Squash**
- **Travelling**
- **Modern Art, especially work of Jackson Pollock**

Volunteer Work:

2015 The NYCRuns half - marathons volunteer