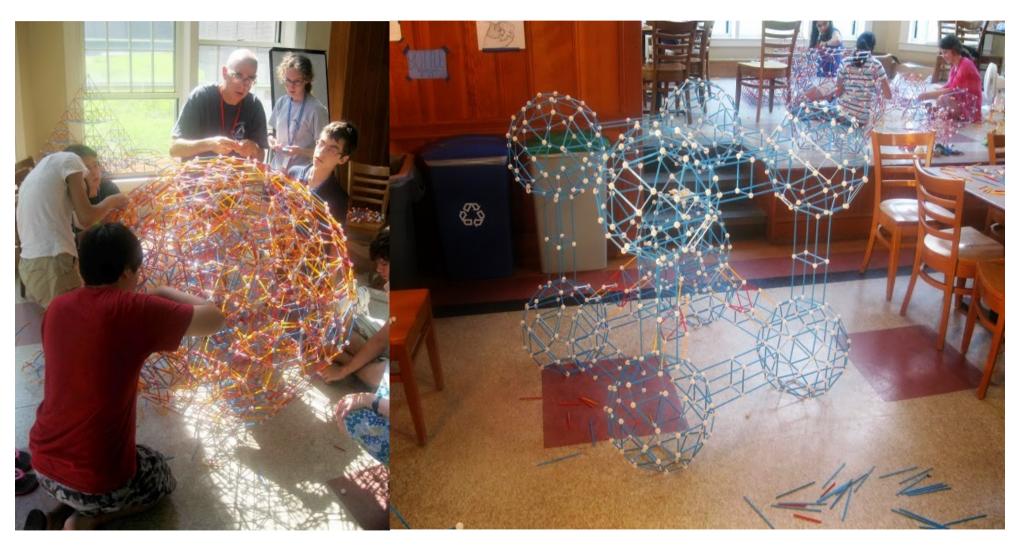
Marcin Kotowski Mathcamp – czyli jak to robią w USA



WWW 9, Flashtalki

Co to jest?

- amerykański obóz matematyczny dla wybitnie zdolnej młodzieży (z USA/Kanady, ale nie tylko!)
- w wakacje, trwa 5 tygodni (!)
- ok. 120 uczestników
- ogólny klimat bardzo podobny do WWW/Funduszu, tylko...
 - dłuższe, więcej wszystkiego
 - tylko matematyka

Ostra jazda z koksem

Mathcamp 2013 Four-Week Schedule

Time	Week 1	Week 2	Week 3	Week 4
9:10am	Partially Ordered Sets 200 (Kevin)	Hydrogen Atom 200 (David Jordan)	Quantum Computation 200 (Matt)	[HW] Origami 🎾 (Zach)
	Combinatorial Games 29 (Alfonso)	Surfaces (week 1 of 2) 💋 (Susan)	Multilinear Algebra 🔰 (Asi & Waffle)	Curvature of Polyhedra 🌶 (Nic)
	Group Theory (Mark)	Probability (week 2 of 2) 🌶 (Aaron)	Surfaces (week 2 of 2) 🌶 (Susan)	Approximation)) (Paddy)
	[HW] PS: Polynomials))) (Pesto)	Models of Computation 22 (Pesto)		Auction Theory 299 (Glenn Ellison)
	Cryptography 🌶→🌶ඵ (Matt)	Ring Theory (Mark)		Rep Theory (week 2 of 2)
10:10am	Euler 🌶 (Jon Tannenhauser)	Matrix Groups 🌶🌶 (Asi)	Graph Minors 🎾 (Alex & Marisa)	Fractal Geometry 🌶 (Julian Gilbey)
	[HW] Number Theory 29 (Ruthi)	Proof Writing 2-22 (Mira)	Harmonic Analysis 2000 (Ari & Dave)	John Conway 9-9999
	Inside Convexity (Alex)	Symmetric Functions and Schubert Calcu- lus (week 1 of 2) (Nic & Kevin)	Representation Theory (week 1 of 2)	Billiards 9999 (Craig Sutton)
	Continuum Hypothesis クラウラ (Susan)	Epsilon the Enemy 🎾 (Ruthi)		Geometry (TBA)
	Linear Algebra 🎾 (Nic)	Set Theory 222 (Waffle)		
11:10am	[HW] Abstraction 🌶 (Mira)	Reverse Mathematics 🎾 (Steve & Matt)	Polynomial Method 2000 (Pesto)	Category Theory 2000 (Waffle)
	4.99 Color Theorem 🎾 (Noah)	Chip Firing and Sandpiles 22-222 (Sam Payne & Dave Jensen)	Continued Fractions 22 (Dave)	TBA (Mark)
	Hindman's Theorem (Steve)	Using Linear Alg. (Po-Shen Loh)	Symmetric Functions and Schubert Calcu- hus (week 2 of 2) (Nic & Kevin)	Elections: Influence and Stability 22 (Tim!)
	Probability (week 1 of 2) ⊅→೨೨ (Aaron)	Bruhat Orderings 222 (Ben Elias)		Sym. Group Reps. 299 (Kevin & Alex)
	Multiparty Communication)) (Tim!)	Topology of Surfaces 🎾 (Scott Taylor)		
1:10pm	Intro to Graph Theory 🤌 (Marisa)	Functions of a Complex Variable (week 1 of 2) (Mark)	Functions of a Complex Variable (week 2 of 2) (Mark)	Flows))-))) (Pesto)
	[HW] Category of Sets クラウ (Waffle)	[HW] Probabilistic Method 🌶 (Tim!)	Voting Theory 2 (Alfonso)	Littlewood-Offord Problem 🌶 (Susan)
	Spacetime))) (Jin Gates)	Cut That Out! 22 (Zach)	[HW] Travelling Salesman Problem 29- 200 (Gwen Spencer)	Hyperreals 999 (Don Laackman)
	Geometry is Awesome 🎾 (Zach & Asi)	Finding the Perfect Match 🎾 (Alex)		[HW] Flag Varieties 2999 (Asi)
	Multivariable Calculus 🍎🍎🌶 (Mark)			
Superclasses				
9:10am-11am, 3:10pm-4pm			Machine Learning 29 (Tim! & Mira)	Algebraic Number Theory 2000 (Ruthi)
			Communication Complexity (Marcin Kotowski)	Metric Spaces 29 (Alfonso & Nina)
			Mathematical Sculpture ∌ (George Hart & Zach)	
		Partizan Game Theory 🌶 (Alfonso)	Combinatorics of Partitions 🌶 (Michal Kotowski)	Rewrite Systems 🌶 (Aaron)
	:10ат-12рт, 1:10рт-3рт	Programming in Haskell (Nic)	Commutative Algebra 🔰 (Ruthi)	PRIMES is in P 222 (Mira & Matt)
			Markov Algorithms 🌶 (Aaron)	

Key: [HW]—Homework Required

Przykładowe zajęcia

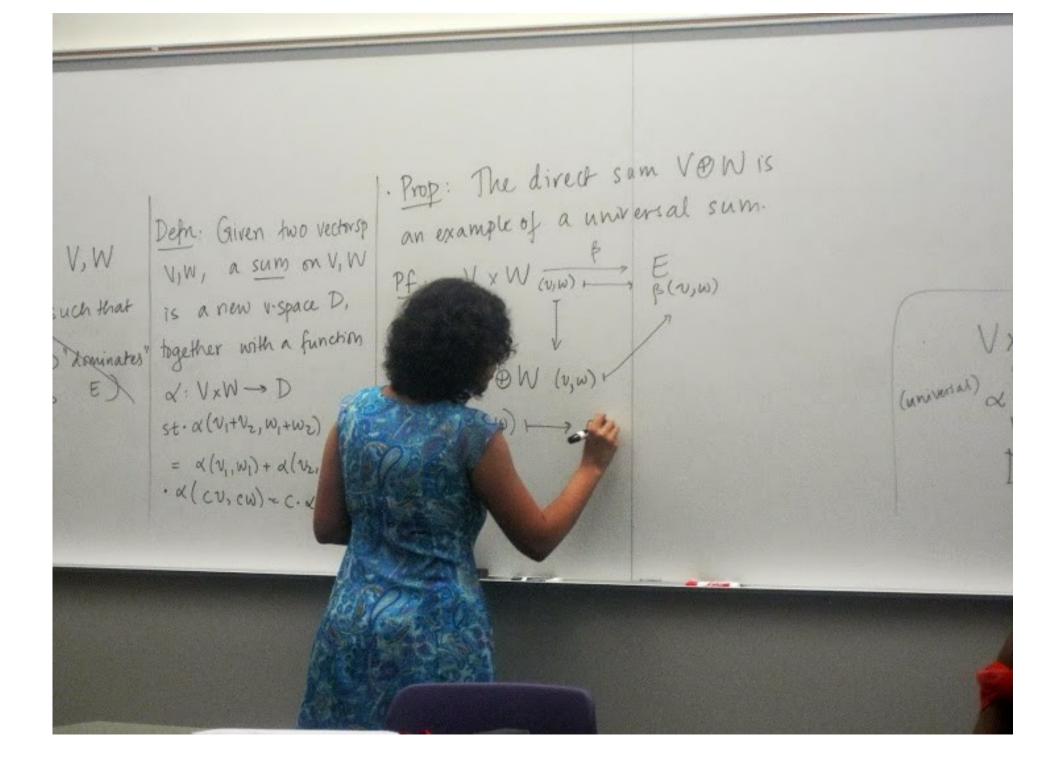
- analiza harmoniczna, teoria reprezentacji, teoria funkcji symetrycznych
- uczenie maszynowe, przepisywanie termów
- topologia powierzchni, hipoteza continuum
- złożoność komunikacyjna, kombinatoryka podziałów :)
- + masa innych rzeczy





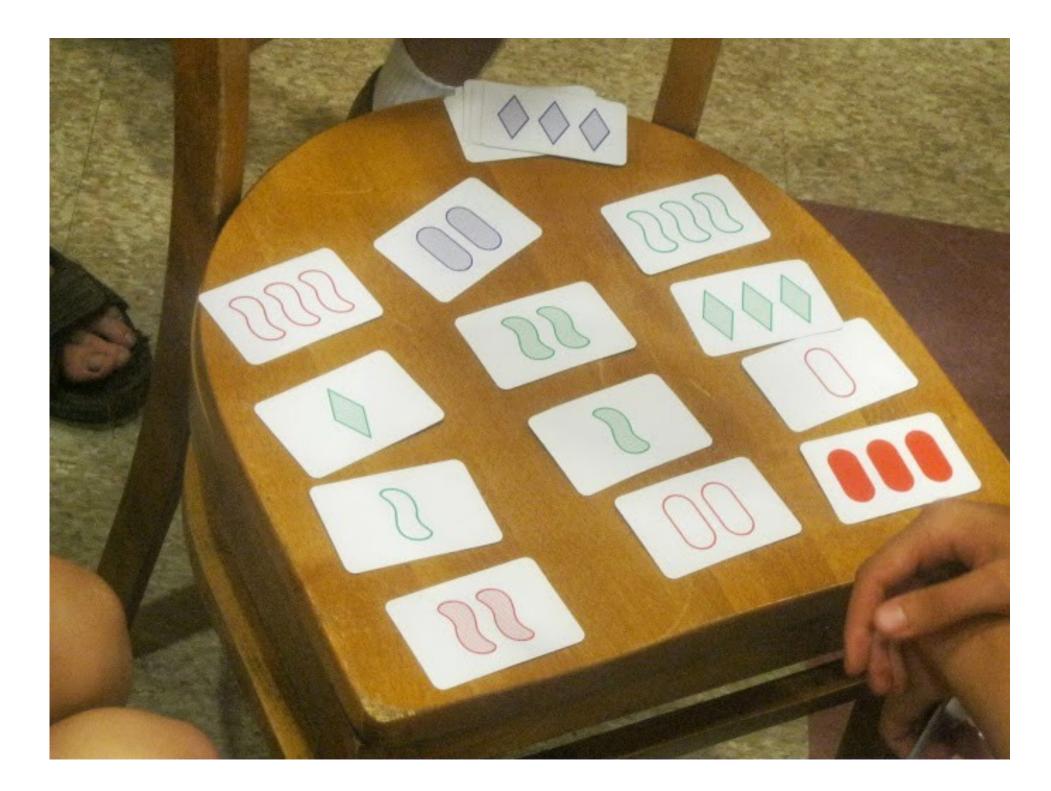


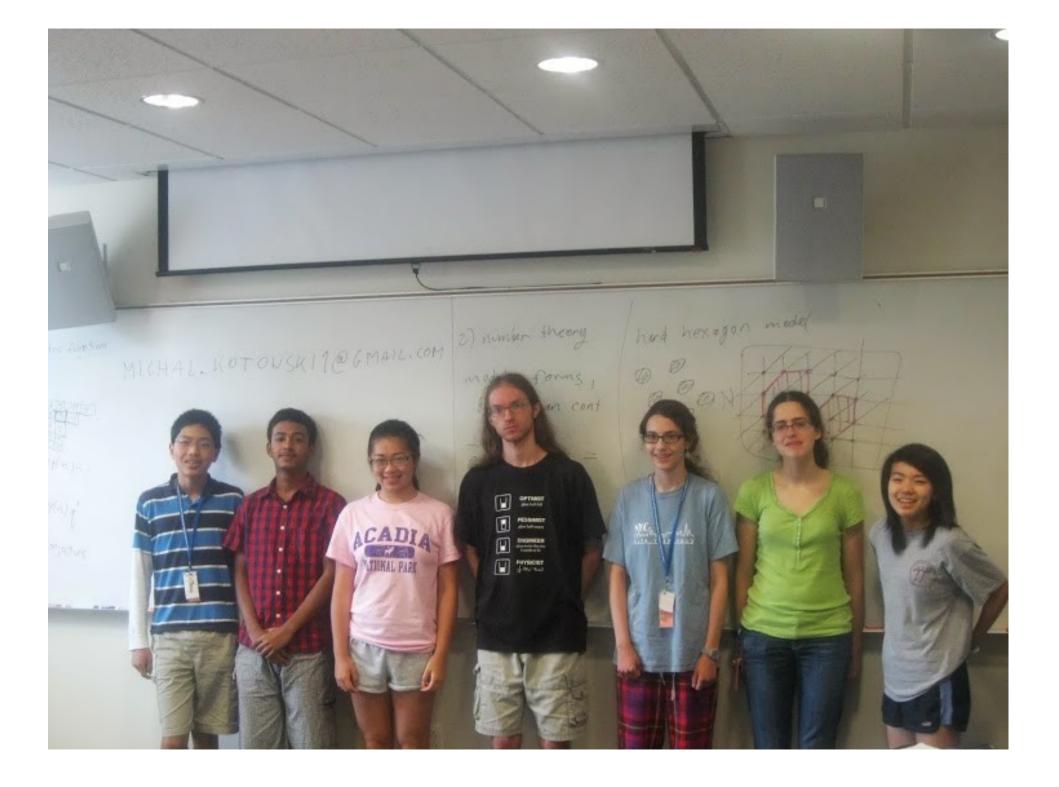






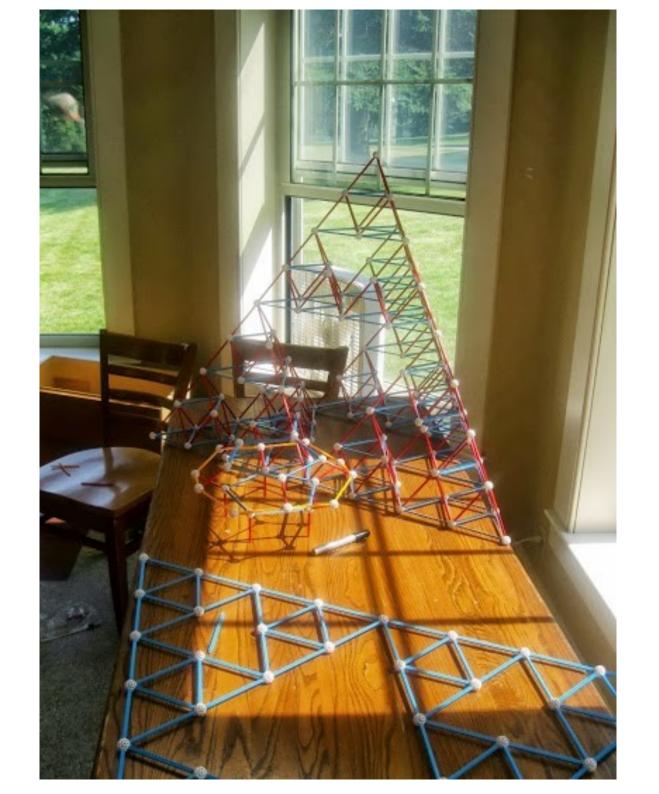
















Aplikujcie tam!

- Mathcamp przyjmuje uczniów z zagranicy!
- jak kogoś przyjmą, dają "full financial support" (koszt pobytu + podróż)
- warto