CHRISTOPHER NEIL GADZINSKI

me@cgad.ski ⋄ `https://cgad.ski`

EDUCATION

Frances C. Richmond Middle School (United States, New Hampshire) *2010–2012*
Middle School

· Advanced placement (AP) math.
· Played clarinet in the Green Mountain Youth Symphony.

Music Conservatory of Coimbra (Portugal) *2012–2016*
High School

· Integrated high school / conservatory. Studied piano.

University of Coimbra *2016–2019*
Bachelor in Mathematics *Final GPA: 18/20*

· Received the "Prémio Doutor João Farinha" for graduating with the highest grade in my year.
· Received an undergraduate research grant ("Novos Talentos em Matemática") from the Calouste Gulbenkian foundation in 2017/2018. I studied the Yannakakis theorem and pursued a conjecture on combinatorial lower bounds for non-negative matrix rank.

University of Coimbra *2019–2021*
Master's in Pure Mathematics *Final GPA: 19/20*

· Received the "Prémio Doutor Renato Pereira Coelho" for graduating with highest grade in my year.
· My dissertation, *From Coordinate Algebras to the Pontryagin Maximum Principle*, is available online: `https://cgad.ski/math/thesis.pdf`.
· Received a research grant from the Fundação para a Ciência e Tecnologia for a project unrelated to my dissertation. I studied a way to adapt low-rank matrix completion algorithms to non-linear models and presented a poster at Effective Methods in Algebraic Geometry (MEGA) in June of 2021.

POSTERS AND PRESENTATIONS

Inferring Polynomial Relationships from Partial Data Using
Matrix Rank Minimization *June 2021*

· Conference poster at Effective Methods in Algebraic Geometry (MEGA).
· Available online: `https://cgad.ski/math/mega_poster.pdf`

A Polynomial Model for Filling In Incomplete Data *July 2021*

· 15 minute presentation at the Encontro Nacional SPM (Sociedade Portuguesa da Matemática).
· Available online: `https://cgad.ski/math/spm_presentation.pdf`

Symmetry in Optimal Control *May 2022*

· Mini-symposium presentation at the French German Portuguese Conference on Optimization (FPG).
· Available online: `https://cgad.ski/math/symmetry_in_optimal_control.pdf`

PREPRINTS

The Veronese Hitting Subspace Method for Subspace Clustering with Missing Data *August 2022*

· Available online: `https://cgad.ski/math/hitting_subspace.pdf`

JOB EXPERIENCE

Optylon *October 2015*

Tools: Haskell

· A brief job as a contracted programmer during high school. I maintained a Haskell application used for scraping real estate websites.

Freiheit.com *September 2021–April 2022*

Tools: Kotlin / Typescript / Kubernetes / Kafka

· A full-time job as a software engineer. Received excellent performance reviews.

OTHER INTERESTS

Rowing

· Throughout high school and college I rowed competitively for my local team, the Associação Academica de Coimbra. I earned several victories at the Portuguese national level, mainly in the 2x.

HOBBY PROGRAMMING PROJECTS

solemnsky *January, 2016–October, 2016*

Tools: C++ / SDL *https://github.com/solemnsky/solemnsky*

· A prototype 2D multiplayer game, written "from scratch" in C++ with SDL / enet / Box2D during my last year of high school. With the help of several contributors, I got as far as having a playable demo. I had no time to continue development after entering university, and the project was abandoned.