Gerard Francis M. Ortega

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Experience

National Olympiad for Informatics Philippines (NOI.PH) - Scientific Committee

An annual algorithmic programming competition for Filipino High Schoolers

Problem Setter and Tester (2018-present)

Creates algorithmic programming problems for NOI.PH, including strong test data for a variety of subtasks.

Tests the strength and rigor of other problems' data against solutions of different levels of efficiency and correctness. Experience with using **Git** for collaborating with other developers in creating test data.

Sample problems: bit.ly/LotsOfCookiesNOI and bit.ly/LotsOfCookiesNOI and bit.ly/SenoritaNOI and <a href="mailt

Trainer (2018-present)

Leads online lessons in mathematics and programming to finalists who opt to join the NOI.PH training. Creates comprehensive, textbook-style training modules in LaTeX for use by NOI.PH in these online lessons. Sample module (on Combinatorial Game Theory): bit.ly/NOI2019GameTheory

Ateneo Programming Varsity (AdMU ProgVar)

Represents Ateneo in local and international algorithmic programming contests

Member (2017-present)

Undergoes weekly rigorous training in data structures and algorithms

Programming Contests

ICPC Manila Regionals 2017	UP ACM Algolympics 2018	ICPC Singapore Regionals 2018
Top 8 out of 35 teams	1st out of 29 teams	Top 17 out of 50 finalist teams
		158 teams in the preliminary
Samsung Algo Challenge 2019	UP ACM Algolympics 2019	ICPC Malaysia Regionals 2019
6th out of the Top 10 finalists,	2nd out of 30 teams	Top 10 out of 33 teams
157 participants in the eliminations		Highest Ranking Local Team
ICPC Manila Regionals 2019	UP ACM Algolympics 2020	
Top 12 out of 46 teams	1st out of 20 finalist teams	
Highest Ranking Local Team	82 teams in the eliminations	

Education

Aug 2017 - Present	Ateneo de Manila University	
	Bachelor of Science in Mathematics	
	Cumulative QPI: 3.93 out of 4 (First Honors)	

Programming Projects

Repository of old projects (including Java desktop apps and Python scrapers) at github.com/gfmortega?tab=repositories. Experience with **Python** libraries for collecting data from Twitter, Reddit, etc. APIs Experience with **Python** libraries for statistics and numerical analysis

Skills and Interests

Programming Languages

- C++
- Java
- Python
- MatLab and SciLab

Mathematics Courses Taken

- Graph Theory
- Number Theory
- Abstract Algebra
- Linear Algebra
- Scientific Computing
- Probability Theory