Grzegorz Guśpiel

phone: +48 607 083 266, e-mail: guspiel@gmail.com

EDUCATION	
10/15 - 07/20	PhD, Computer Science, Jagiellonian University, focus: algorithms, combinatorics, graph theory
10/13 - 07/15	MSc, Computer Science, Jagiellonian University, with distinction
10/10-06/13	BSc, Computer Science, Jagiellonian University, with distinction
Experience	
07/16 - 09/16	Jane Street, software engineering intern (wrote a library that automatically generated code of serialization functions for various kinds of user-defined types, in order to prevent mundane coding each time a new type was introduced; OCaml, ppx)
07/13 - 09/13	Google, software engineering intern (built a new anti-abuse mechanism, measured its effectiveness on a farm of Android devices, selected best-performing implementation out of ~ 15 variants; Java, Go)
07/12 - 09/12	Facebook, software engineering intern (contributed optimizations to the process of pushing indexes to search servers; Python, Bash, Java, $C++$)
2008 – 2011	web application for Dive Centre Kraken (wrote and maintained a web app that managed dive trainings, course payments, instructor commissions, exam results etc.; used to manage courses of over 1000 divers; PHP, MySQL)
Competitio	NS
2015	15^{th} place in ACM ICPC World Finals
2013	bronze medal in ACM ICPC World Finals
2011, 2012, 20	14 2 nd , 3 rd and 7 th in Central Europe Regional Contest (ICPC regional for 7 countries)
RESEARCH	
2015 - 2020	 5 publications (full list here) 1 paper in Journal of Combinatorial Theory, Series B - a top journal in combinatorics 3 papers presented at computer science conferences with CORE2018 rank A thesis received very good reviews created an O(n√n) algorithm to invert a permutation using constant additional memory contributed to a graph drawing paper by speeding up the main algorithm from O(n²) to O(n log² n), improvement achieved by applying persistent 2D segment trees and planarity-related observations
2017 - 2020	paper reviews for ACM-SIAM Symposium on Discrete Algorithms, International Colloquium on Automata, Languages and Programming, Discrete Mathematics
2014 - 2019	supported by $Diamond\ Grant$ (research grant awarded to 100 students in Poland each year)
TEACHING	
09/17-09/19	algorithmics teacher at 5 th High School in Kraków (delegated by Jagiellonian University) - one of very few high schools in Poland offering weekly university-led algorithmics lessons, attracting most gifted young informatics enthusiasts in southern Poland - class of 30 students, intensive course starting from basics of C++ and covering most of classic algorithmics, with a strong focus on implementing learned algorithms at home on weekly basis - challenges: keeping lessons attractive both for most talented students and slow learners, maintaining high requirements, checking on students that were falling behind, preventing forbidden code copying - result: students left high school as C++ programmers with experience in coding numerous advanced algorithms, 6 of them advanced to the finals of Polish Olympiad in Informatics
2015 - 2019	teaching assistant for algorithmics course at Jagiellonian University (6 semesters)
2019, 2020	co-organizer of intensive week-long algorithmic workshops for high school students
-	Polish Collegiate Programming Contest (2019), Central Europe Regional Contest (2013), onian University preliminaries (2015 – 2020)

${\rm Skills}$

long-time C++ user; basic familiarity with Linux&Bash

languages: English (fluent), German (basic), Polish (native)