Grayson Morris

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Objective

After seventeen rewarding years running my own translation company, I'm eager to return to COMPUTER SCIENCE RESEARCH. My past work is in graphics; my future is in PRIVACY AND SECURITY.

About

Citizenship USA + NL
Date of Birth 01-01-1967
EN native **NL** fluent

1984

High School Diploma
North Carolina School of Science and Mathematics

NCSSM opened in 1980 as the first of its kind in the US: a residential high school for academically gifted students, focused on science, technology, engineering, and math. Applicants undergo a rigorous selection process.

NL Equivalent: VWO NT + NG

1989

BSc Mathematics
University of North Carolina at Chapel Hill

A broad liberal arts education with a mathematics specialization.

Coursework Advanced calculus | Algebraic structures | Differential equations | Differentiable manifolds | Geometry of curves and surfaces | Linear algebra | Real analysis | Topology

Project In-depth review of Hermann Weyl's classic text *Symmetry*

Chancellor's award for student excellence 1986

CGPA 3.6 / 4.0

1993–96

PhD Candidate CompSci
University of North Carolina at Chapel Hill

UNC-CH has been a leading center of virtual environments research since the field's early days.

MSc-level Coursework
Algorithm analysis | Architecture & implementation | Automata | Complexity | Data structures | Graphics | Operating systems | Software design

Research Virtual environments under Fred Brooks

NSF Graduate Research Fellowship 1995

My story

In 1981, at the age of 14, I applied to the North Carolina School of Science and Mathematics. After a highly competitive selection process, I was admitted, and I graduated with my HIGH SCHOOL DIPLOMA IN 1984.

I took a year off, then went to college. With a perfect 4.0 / 4.0 GPA my first year, I was eligible to compete for the university's AWARD FOR FRESHMAN EXCELLENCE. Thanks to my additional activities, including volunteer work with The Hunger Project, I won!

In 1988 I was awarded one of four international student grants to assist NFRA (now ASTRON) staff members in their astronomical research. Those twelve weeks in Dwingeloo produced FOUR ACADEMIC PAPERS ON RADIO ASTRONOMY IMAGING. In late August I went back home to the US and completed my BSc IN MATHEMATICS IN 1989.

During my final semester of college, I was HIRED TO TEACH PRECALCULUS to first-year students. I loved it! My enthusiasm must have rubbed off on my students; I was nominated for the math department's teaching award. The university hired me for several more semesters over the years, including a summer program for disadvantaged students.

In the fall of 1991 I gave birth to my first child, and I spent the next two years at home. In 1993 I started a PHD PROGRAM IN COMPUTER SCIENCE at UNC, as part of Turing Award winner Frederick P. Brooks' Architectural Walkthrough team. (Read the 2004 article "Massive Model Rendering System" for a brief project overview.) I worked hard both in class and on the team, and in 1995 I was awarded a NATIONAL SCIENCE FOUNDATION GRADUATE RESEARCH FELLOWSHIP.

As fate would have it, a year later IBM made me an offer I couldn't refuse, and I left school sans PhD. (By then I was a single mother working to make ends meet.) Big Blue hired me to implement graphics algorithms in assembly on an exciting new parallel architecture. Astoninshingly, IBM canceled the project between my interview and my first day of work, so I ended up PROGRAMMING THE G.729A SPEECH CODEC on a different architecture.

1988

Summer Intern
NFRA (now ASTRON)

Three-month grant to work with Dr. Stefi Baum and Dr. Chris O'Dea at the NFRA on radio astronomy imaging.

Papers

O'Dea, CP, SA Baum, C Stanghellini, GB Morris, AR Patnaik, and Gopal-Krishna. "Multifrequency VLA observations of GHz-peaked-spectrum radio cores." Astronomy and Astrophysics Supplement Series 84 (1990): 549–62.

Stanghellini, C, SA Baum, CP O'Dea, and GB Morris. "Extended radio emission associated with GHz-peaked-spectrum radio sources." Astronomy and Astrophysics 233 (1990): 379–84.

O'Dea, CP, SA Baum, and GB Morris. "CCD observations of GigaHertz-peaked-spectrum radio sources." Astronomy and Astrophysics Supplement Series 82 (1990): 261–72.

O'Dea, CP, SA Baum, GB Morris, DW Murhpy, and AG de Bruyn. "Optical and radio imaging of powerful, ultracompact GHz-peaked-spectrum radio sources." Proceedings of the ESO Workshop on Extranuclear Activity in Galaxies (1989): 79–84.

1989–94

Instructor
University of North Carolina at Chapel Hill

Taught first-year university students.

Fall 1994 Freshman precalculus.

Fall/Spring 1993-94 Undergraduate introduction to computer science.

Spring 1991 Freshman precalculus.

Summer 1990 College algebra for incoming minority freshmen with demonstrated difficulties in mathematics.

Fall/Spring/Fall 1989-90 Freshman precalculus.

1996–97

Software Engineer
International Business Machines

Implemented the G.729A speech codec in assembly on IBM's Mwave digital signal processor.

1997–99

Software Engineer
Billions of Operations Per Second

Implemented a subset of the OpenGL graphics API in assembly on a four-core instantiation of BOPS' synchronous MIMD iVLIW ManArray architecture. See right column for patents.

1999–present

Cofounder
Morris-Jacobs Child Development and Chaos Management

Managing a deeply intensive field research project into offspring development. Responsible for subjects' care and feeding, waste management, sensory stimulation, dual language acquisition, conflict resolution, education, and acquisition of appropriate social skills. Secondary tasks include environmental maintenance, subject transportation, and sustenance preparation. (Grain of salt available upon request.)

2002–present

Owner
Dutch-American Translations

Translating and copywriting for corporate, government, and private clients. Relevant highlights:

TechWatch Books | 2018 Translated Rene Raaijmakers' technology-heavy book *De architecten van ASML* for the US market.

Bits&Chips | 2016–18 Translated and edited the magazine's annual English-language issue for the high-tech industry.

NanoLabNL | 2013 Took scientists' input and wrote a successful €26M grant proposal to fund QuEEn (quantum electrical engineering) under NWO's National Roadmap for Large-Scale Research Facilities.

My story continued

Meanwhile, the team from IBM's canceled project spun off a new startup called BOPS, and I soon joined them to implement a subset of the OpenGL graphics API in assembly on a four-core instantiation of the synchronous MIMD iVLIW ManArray architecture, so we could run the Viewperf CDRS-03 benchmark. (Read the 1998 article "New High-End Architecture" for a brief overview of this amazing system.) These were dynamic, creative years, and I was privileged to contribute to FIVE PATENTS .

Along the way, I met and married a charming Dutchman. Our son was born in 1999, and our daughter nineteen months later. I spent the next few years at home, working at least as hard as I had in industry. (It's been said that RAISING A FAMILY hones vital work skills such as multitasking, leadership, planning, determination, and efficiency. I certainly won't argue with that.)

In the spring of 2002 we moved from the US to the Netherlands. I was ready for a new challenge (one that didn't involve diapers), so I started putting my language skills to use as a translator. I FOUNDED MY OWN COMPANY that fall, and I spent the next seventeen years TRANSLATING AND COPYWRITING for corporate, government, and private clients. My technical background often came in handy, as did my skill in writing.

Speaking of writing, I also write science fiction and fantasy. Several of my stories have been published (see my personal website if you're interested in reading them).

So that's my story so far. After two decades on the periphery of technology, I'm ready to sink my teeth back into its theoretical heart. Over the years I've developed a keen interest in privacy and security. I've taken a handful of MOOCs on cybersecurity, cryptography, and quantum computing. My next step is to earn an MSc, then a PhD. So WATCH THIS SPACE...

1997–99

Patents
Billions of Operations Per Second

US7962667B2, 1999 Pechanek, Strube, Barry, Kurak, Busboom, Schneider, Pitsianis, Morris, Wolff, Marchand, Rodriguez, Jacobs. System core for transferring data between an external device and memory.

US6748517B1, 1999 Pechanek, Strube, Barry, Kurak, Busboom, Schneider, Pitsianis, Morris, Wolff, Marchand, Rodriguez, Jacobs. Constructing database representing manifold array architecture instruction set for use in support tool code creation.

US6622234B1, 1999 Pechanek, Strube, Wolff, Barry, Morris, Busboom, Schneider. Methods and apparatus for initiating and resynchronizing multi-cycle SIMD instructions.

US6167501A, 1997 Barry, Pechanek, Drabenstott, Wolff, Pitsianis, Morris. Methods and apparatus for ManArray PE-PE switch control.

US6151668A, 1997 Pechanek, Drabenstott, Revilla, Strube, Morris. Methods and apparatus for efficient synchronous MIMD operations with iVLIW PE-to-PE communication.

ABOUT

Me www.graysonbraymorris.com

This doc LaTeX · github.com/gbmj

Hobbies windsurfing and supping
writing science fiction and fantasy

2020– . . .

MSc → PhD → A REWARDING CAREER DEVISING WAYS TO SECURE DIGITAL PRIVACY