

# Daniel Lemire *Computer scientist*

[daniel@lemire.me](mailto:daniel@lemire.me) • [lemire.me/en/](http://lemire.me/en/) • [github.com/lemire/](https://github.com/lemire/)  
Montreal, Canada • Canadian Citizen • Father of two clever boys

---

## Summary

University professor, blogger, programmer, government researcher and entrepreneur. I have been programming software since I was 12 years old and I never stopped. On GitHub, I am among the 500 most followed developers worldwide.

## Writing (with collaborators)

- I have written [100 refereed publications](#) and I have been cited thousands of times.
- My [blog](#) has been featured on Reddit, Hacker News and Slashdot.

## Software (with collaborators)

[fast\\_float](#) First number parser to reach a gigabyte per second • adopted by GCC (libc++), LLVM (libc), Rust, Go, ...

[simdjson](#) First JSON parser to reach gigabytes per second • top 100 C++ project on GitHub

[Roaring bitmap](#) Fast bitmaps used by big-data systems (e.g., Apache Spark)

[EWAH](#) Fast bitmaps used by Git

## Recent experience

Université du Québec (TELUQ)

MONTREAL, CANADA

**Computer Science Professor**

2004–

Promoted to full professor early (2009). Department chair (2017–2023). Got a rating of outstanding on excellence of researcher in 2017 NSERC competition. Co-president of NSERC Computer Science committee (2018–2020). Editor of *Software: Practice and Experience*.

National Research Council of Canada

CANADA

**Research Officer**

2002–2004

Founded and lead the e-Health research group. Designed the [Slope One algorithm](#).

---

## Education

Ecole Polytechnique • Université de Montréal

MONTRÉAL, CANADA

**Ph.D. in Engineering Mathematics (graduated in 2  $\frac{1}{2}$  years)**

1998

University of Toronto

TORONTO, CANADA

**B.Sc. and M.Sc. (very high distinction, master completed in one year)**

1994, 1995

---

## Skills

**Can program productively in** Java, C++, C, Python, Go, Swift, JavaScript

**Fluent in** French (*mother tongue*), English (*full professional proficiency*).