

From Pure Algebra to Applied Category Theory: a personal journey

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This is a talk about how I ended up in Silicon Valley, helping to invent new AI products, from a background of Algebra, Logic and Categorical Semantics in the Pure Mathematics Dept of Cambridge. I will discuss how pure mathematics informs and guides computer science through the Curry-Howard correspondence, and how computer science, in turn, engages mathematicians to explain through mathematical structures how computations work. Hopefully, the personal journey angle sheds some light on issues women face when doing Mathematics.

References

- [1] VALERIA DE PAIVA, *Dialectica and Chu constructions: cousins?*, Theory and Applications of Categories 17 (7), 127-152, 2007.