

# André VIDELA

FUNCTIONAL PROGRAMMER / ASPIRING TYPE THEORIST

## PERSONAL DATA

---

PLACE AND DATE OF BIRTH: Switzerland | 20 August 1991  
ADDRESS: Rue pré-du-marché 9B, 1004 Lausanne, Switzerland  
PHONE: +41 76 822 0541  
EMAIL: [andre.videla@gmail.com](mailto:andre.videla@gmail.com)

## Bio

---

Fascinated by programming languages, I seek excellence, correctness and beauty in code. Currently I work a lot in Idris trying to build real-world software out of provable programs. My deepest interests lie in type systems and programming language theory and design.

## WORK EXPERIENCE

---

APR. 2018	Backend Developer at Bity SA (Neuchatel)	
DEC. 2018	Developed services to provide a common API to interact with cryptocurrency nodes. Lead the architectural effort to enable easy extension using the Haskell type system and provided strong guarantees about the business logic through thorough testing and type information.	Haskell
OCT. 2017 - JAN. 2018	Mobile Developer at Krown SA (Geneva) Developed and maintained iOS app for business customers	Swift, Rx
OCT 2016 - JUNE. 2017	Software Engineer at Sicpa, Lausanne Designed, developed and maintained internal and public APIs and libraries for iOS. Developed and maintained small and medium scale iOS apps using agile Scrum.	Swift, Obj-C
MAR. 2016	Release of <a href="#">Arcaea</a> for Android and iOS by lowiro (Remote) Designed and implemented a DSL to describe music notes in 3D, including parsing and checking tools	C++, Javascript
SEPT 2015 - JULY 2015	Internship at KABOTIP, Tokyo (Remote) Developed micro-services in Clojure for the Kabotip platform. Namely the mobile notification service and the automatic moderation tool for user comments.	Clojure, Redis
MAY 2015	T-Aiko: A rhythm game on android and iOS (Remote) Retro engineer existing DSL and wrote parsing tools and interpreter. As well as other tasks such as UI and real-time event handling	Java

## EDUCATION

---

Oct. 2017 - 2019	Licence in Computer Science at Unidistance
July 2017	EUTypes summer school Coq, Agda, HoTT, $\lambda$ -calculus
May 2017	Introduction to Logic by Stanford University on Coursera. <a href="#">statement of accomplishment</a>
2012 - 2016	Attended Bachelor in Computer Science at EPFL, Lausanne Collected 131 credits
2007 - 2012	Maturité Gymnasiale option principale Physique et Application des Math option secondaire Introduction à la programmation

## LECTURES AND PROJECTS

---

ONGOING	Organiser of the <a href="#">Software verification meetup</a> in Lausanne since 2017.	
ONGOING	Reading <a href="#">Quantitative Type Theory</a> by Robert Atkey	Type Theory, Idris 2
FEB. 2018	Interviewed for the Corecursive podcast: <a href="#">007 - Total Programming Using Swift with Andre Videla</a>	Swift, Idris
DEC. 2017	Gave a talk about Idris and dependent types at the Software verification meetup.	Idris
OCT. 2017	Read <i>State Machines All The Way Down</i> by Edwin Brady	Idris
SEPT. 2017	Read <i>Kleisli arrows of outrageous fortune</i> by Conor McBride	Haskell (SHE)
AUG. 2017	Presented work on <a href="#">Total Parser Combinators</a> by Nils Anders Danielsson for a small local conference ( <a href="#">VOD on youtube</a> )	Idris, Agda
SEPT 2015	Release of <a href="#">Hackerspaces</a> for iOS	Swift

## LANGUAGES

---

FRENCH:	Mothertongue
ENGLISH:	Fluent
SPANISH:	Good speaker
JAPANESE:	Basic knowledge

## PROGRAMMING LANGUAGES

---

Mastery	Swift, Java
Excellent	Scala, JS, Obj-C
Intermediate	Idris, Haskell, Clojure, C++, C, C#
Beginner	Coq, Rust, Agda

## INTERESTS AND ACTIVITIES

---

- VIDEO GAMES continuously teach me new ways of interacting within a team, handling hard situations and keeping the right mindset in highly competitive settings. I also keep

a monthly "video game playing club" with a small group where we discuss the narrative value of interactive experiences.

- MATH keeps me engaged in the latest developments in programming language research and theory. It allows me to find elegant and correct solutions to hard problems daily.
- SPORTS allow me to stay healthy many ways. I practice all sorts of individual trainings like running, fitness exercises and swimming. I also played badminton with the team at Sicpa SA.