

Imanol Schlag

PROFILE

- Analytical and results driven
- Effective communicator and collaborator
- Reliable, industrious and a team player

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EDUCATION

MSC IN ARTIFICIAL INTELLIGENCE
[University of St Andrews, Scotland](#) | SEP 2015 - AUG 2016

Foundational knowledge of Artificial Intelligence with practical design and implementation. Provides grounding AI technique in the areas of AI reasoning, planning, doing and learning. Includes natural language processing, constraint programming, Deep Learning, and datamining. Distinction expected.

Thesis: *Ancient Coin Classification* – A Deep Learning project using TensorFlow (due August 2016)

BSC IN COMPUTER SCIENCE
[Fachhochschule Nordwestschweiz \(FHNW\), Switzerland](#) | SEP 2012 - AUG 2015

Bachelor of Science in Computer Science at the University of Applied Sciences Northwestern Switzerland with the additional specialisation in Information Processing and Visualization. This course included Efficient Algorithms, Computer Graphics, Image Processing, Machine Learning and many practical student projects with the main focus on project management and teamwork.

Thesis: *Face Similarity* – Find lookalikes from images using Machine Learning Swiss Grade: 5.6/6.0 (US: A-)

GRENADIER RECRUIT SCHOOL & NCO COURSE
[Swiss Armed Forces](#) | SEP 2010 - JUN 2011

Grenadier recruit and NCO course at the Special Forces Training Center of the Swiss Armed Forces in Isone. The selection procedure contained testing of physical, mental and technical capabilities. The NCO course also included instructor training and several skills comprising leadership, self-awareness, communication, teamwork, decision making and others.

APPRENTICESHIP IN INFORMATION TECHNOLOGY WITH SWISS MATURA
[Basler Kantonalbank, Switzerland](#) | SEP 2006 - JUN 2010

Four years' vocational education and training with additional technical vocational baccalaureate. Practical work experience in Server, Network and Database departments, as well as, First-Level-Support.

EXPERIENCE

MEMBER OF THE STUDENTS' UNION EXECUTIVE
[fhnw.students](#) | SEP 2013 - AUG 2015

As a member of the students' union's executive at the FHNW, we established a representative body dedicated to social and organisational projects and services for our students. This included the planning and execution of the annual *FH-Fest* event with 1'800 visitors and a turnover of 44'000 CHF (~30'000 £).

GRENADIER NCO SERVICE
[Swiss Armed Forces](#) | JUN 2011 - DEC 2011

As an instructor, I have trained special operations forces soldiers in different skills and led them through different ability tests to examine their operational readiness and capabilities.

PROJECTS AND TECHNOLOGIES

- Blog about my research interests - [ischlag.github.io](#)
- Constraint solver in **Lua** - [github.com/ischlag/LuaConstraintSolver](#)
- Fully-connected feed-forward neural network with SGD in **Julia** - [github.com/ischlag/Julia-Machine-Learning](#)
- 2D robot simulator using potential fields in **Java** - [github.com/ischlag/2D-Robot-Simulator](#)
- Web server with dynamic pages in **Java** - [github.com/ischlag/IcyWrench](#)
- BSc thesis on face recognition in **Matlab** written in German - [ischlag.github.io/face_similarity_thesis.pdf](#)
- GPU based, associative, robust, holographic memory in **c++/AMP** - [github.com/ischlag/Gymy](#)
- Pigeon defense project using image processing and lasers in **Python** - [github.com/ischlag/Pigeon-Defense](#)
- A clever and very fast plagiarism detector in **Java** - [github.com/ischlag/PlagiarismDetector](#)

Other: Scala, C#, SQL, Software Development, Design, Testing, Security, Linux, Android