

# Victor Ma | Curriculum Vitae

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🌐 [www.linkedin.com/in/VicMa](http://www.linkedin.com/in/VicMa)

## Skills

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**Programming:** Python, R, MATLAB, SQL, C++, HTML

**Theory:** Data mining, machine learning, probability & statistics, natural language processing

**Systems:** Linux, OSX, Windows, MySQL, git, shell, MongoDB

**Communication:** Technical consulting, presentations, visualization, Microsoft Office

**Projects:** Please refer to my LinkedIn profile at [www.linkedin.com/in/VicMa](http://www.linkedin.com/in/VicMa) for a list of my programming and analysis projects.

## Experience

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<b>EPFL</b> <i>Doctoral research assistant in Computer Science</i>	<b>Lausanne, Switzerland</b> <i>2013–Present</i>
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Researched and studied machine learning, text mining, computational linguistics, and computer vision.

<b>THE MITRE CORPORATION</b> <i>Senior systems engineer and consulting analyst</i>	<b>Bedford, MA, USA</b> <i>2009–2013</i>
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Primarily managed and conducted evaluation, test, and integration activities for missile defense.

<b>THE MITRE CORPORATION</b> <i>Engineering intern in radars &amp; missile defense</i>	<b>Bedford, MA, USA</b> <i>2008–2009</i>
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Assessed radar performance with live data and developed software tools for analysis.

<b>AIR FORCE RESEARCH LABORATORY</b> <i>Research intern in solid-state lasers</i>	<b>Dayton, OH, USA</b> <i>2007–2008</i>
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Experimented with solid-state lasers and optical fibers for EO countermeasure systems.

## Education

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<b>École polytechnique fédérale de Lausanne (EPFL)</b> <i>Ph.D in Computer Science</i>	<b>Lausanne, Switzerland</b> <i>2013–Present</i>
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EDIC Fellowship. Research in machine learning, information extraction, and computer vision.

<b>Boston University</b> <i>Master in Systems Engineering</i>	<b>Boston, USA</b> <i>2008–2009</i>
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Advanced studies in machine learning, statistics, and robotics.

<b>Boston University</b> <i>Bachelor in Electrical Engineering</i>	<b>Boston, USA</b> <i>2005–2009</i>
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Graduated with distinction, *magna cum laude*

## Master's Thesis

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**Title:** *Symbolic motion planning and control in the presence noise*

**Supervisors:** Prof. Calin Belta & Prof. Sean Andersson

**Description:** This research project and conference paper submission explored a scheme for autonomous control of a mobile robot with noisy sensors and actuators in a partially known environment, together modeled as a Partially Observable Markov Decision Process (POMDP).

## Awards

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**2013:** EDIC Fellowship (EPFL)

**2012:** Service award (Missile Defense Agency)

**2009:** *Magna cum laude*, latin honors for top 10% of graduating class (Boston University)

**2005:** College of Engineering Scholarship (Boston University)

## Languages

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**English:** Native

*American English*

**French:** Conversational

*DELF B2*

**German:** Beginner

*DELF A1*