

Marc Henry de Frahan

608 Catherine St.
Ann Arbor, MI, 48104
✉ marchdf@gmail.com

Education

2011-present	Ph.D. in Mechanical Engineering , <i>University of Michigan</i> , Ann Arbor, MI. <i>Research focus</i> : Hydrodynamic instabilities in high energy density physics. <i>Advisor</i> : Prof. E. Johnsen.
2009-2011	M.S. in Applied Mathematics Engineering , <i>Université Catholique de Louvain</i> , Belgium, completed with <i>Grande Distinction</i> . <i>Specialization</i> : Numerical simulation and modeling. <i>Thesis title</i> : Implementation of a Discontinuous Galerkin Method for hyperbolic PDEs on GPUs. <i>Thesis supervisors</i> : Dr. J-F Remacle, Dr. P. Chatelain, Dr. V. Legat.
Fall 2010	Study abroad semester , <i>Inst. Nat. des Sciences Appliquées de Toulouse</i> , France.
2007-2009	B.S. in Applied Mathematics Engineering , <i>Université Catholique de Louvain</i> , Belgium, graduated with <i>Distinction</i> . <i>Minor</i> : Physics.
2006-2007	Freshman year Physics major , <i>Georgetown University</i> , Washington D.C, USA.

Relevant experience

Summer 2010	Student Intern , <i>Lawrence Livermore National Lab.</i> , Livermore CA, USA. Studied hydrodynamic instabilities in inertial confinement fusion targets. Characterized growth factors during capsule compression. <i>Supervisors</i> : Dr. L. Suter and Dr. D. Clark.
Summer 2009	Student Intern , <i>Lawrence Livermore National Lab.</i> , Livermore CA, USA. Studied hot electron signatures and capsule preheat in the context of inertial confinement fusion as developed at the National Ignition Facility. <i>Supervisors</i> : Dr. L. Suter and Dr. C. Thomas.
Summer 2008	Student Intern , <i>Lawrence Livermore National Lab.</i> , Livermore CA, USA. Studied and optimized National Ignition Facility inertial confinement fusion target geometries using view factor calculations. <i>Supervisors</i> : Dr. L. Suter and Dr. C. Thomas.

Languages

English	fluent	<i>First mother tongue.</i>
French	fluent	<i>Second mother tongue.</i>
Dutch	proficient	<i>6 years in secondary school.</i>

Computer skills

Scientific programing	C/C++, C for CUDA, Hydra, Yorick, ITS Monte-Carlo Codes, OpenMP, MPI, Matlab, Python, Gambit/Fluent, Patran/Nastran	Operating systems	GNU/Linux, Windows
--------------------------	---------------------------------------------------------------------------------------------------------------------------	----------------------	--------------------