



# Judicael DECRIEM

Senior FullStack Product Engineer

**ADDRESS** 02300 Chauny (France) **EMAIL** [contact@hodlipop.com](mailto:contact@hodlipop.com) **LANGUAGES** French / English

**DRIVING LICENSE** Driving licenses A & B

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## LINKS

 **LinkedIn** [www.linkedin.com/in/judicael-decriem-a28a5920/](https://www.linkedin.com/in/judicael-decriem-a28a5920/)

 **Malt** [www.malt.fr/profile/judicaeldecriem](https://www.malt.fr/profile/judicaeldecriem)

 **Personal GitHub** [github.com/MiniJudie](https://github.com/MiniJudie)

 **GitHub** [github.com/Hodlipop](https://github.com/Hodlipop)

 **Website** [hodlipop.com](https://hodlipop.com)

## EXPERIENCE

**Jan 2025 — Present**

### Product Engineer

HODLIPOP · Chauny, France · Full remote

- Development of modern web applications with Next.js and TypeScript
- Business workflow automation and reporting
- Internal tools focused on productivity and data
- API integration, dashboards, and data processing

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**Jun 2015 — Jan 2025**

### Chief Technology Officer — Hands on

MyTroc · Permanent · Paris, France · Hybrid

- Development, maintenance, and evolution of the B2B platform and 15 B2B platforms
- Development of internal PHP / JavaScript / CSS framework
- Production infrastructure supervision and administration (OVH / Debian / Nginx / MySQL / ElasticSearch)
- Team structuring and Agile practices
- Cybersecurity leadership (SAST, hardening, detection tools)

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**Feb 2013 — Jan 2014**

### Lead Engineer — HotVolc GIS software

CNRS · Clermont-Ferrand, France · On-site

- Development of a satellite-based volcanic detection system
- Data processing and scientific platform

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**Mar 2011 — Jan 2013**

### Software Engineer — fortune management

Harvest SA · Clermont-Ferrand, France · On-site

- Development of wealth management web applications
- Contribution to internal Java framework (J2EE, Spring, Tomcat)
- Design and evolution of business software components
- Technical consulting on application architecture

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**Sep 2006 — May 2011**

### Ph.D. in Geophysics — Active deformation in South Iceland observed by space geodetic methods

Reykjavik University · Reykjavik, Iceland · On-site

- Large-scale geodetic data analysis (GPS, InSAR)
- Physical modeling and data inversion
- Scientific tools and processing pipelines development
- High-performance computing and numerical simulations
- Linux systems administration and scientific infrastructure management

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**Dec 2003 — Aug 2006**

### Software Architect / Engineer — Cassini Huygens ground data segment

CEA · Saclay, France · On-site

- Development of scientific and space systems
- Calibration, navigation and infrared and optical data processing system

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**Feb 2003 — Jun 2003**

### Software Engineer — Mars Express HRSC acquisition planning

CNES · Toulouse, France · On-site

- Characterization of the Martian surface from heterogeneous data and ACP
- Development of hyperspectral image analysis software

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**Sep 2001 — Jan 2002**

### Software Engineer — Operational Control ARIANE 5

ARIANESPACE · Kourou, French Guiana · On-site

- Development of ARIANE 5 control command test bench
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**Feb 2001 — Jun 2001**

**Software Engineer — GIS military software**

EADS Fleximage · Paris, France · On-site

- Development of data loaders, raster, vector, 3D (DEM)
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**Jun 2000 — Aug 2000**

**Software Engineer — 3D Missile Trajectory Modelling**

Aérospatiale · Paris, France · On-site

- 3D simulation to model missile trajectory
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**EDUCATION**



**2006 – 2010**

**PhD, geophysics**

Háskóli Íslands

Crustal deformation from geodetic techniques: earthquakes and plate movements in the South Iceland Seismic Zone.

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**2000 – 2003**

**MS, Computer Science**

Polytech Paris-Saclay

Master's in software engineering, specialization in Artificial Intelligence and Human-Machine Interface.

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**1999 – 2000**

**DUT, computer science**

Université de Picardie Jules Verne (UPJV)

Associate degree in computer science (special year program).

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**1997 – 1999**

**DUT, OGP (Organisation and production engineering)**

Université d'Artois

## SCIENTIFIC PUBLICATIONS

933 total citations (Google Scholar)

**ARTICLE** 2013

**The opposition effect in Saturn's main rings as seen by Cassini ISS: 1. Morphology of phase functions and dependence on the local optical depth**

E Déau, L Dones, S Charnoz, RA West, A Brahic, J Decriem, CC Porco  
Icarus 226 (1), 591-603, 2013

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**ARTICLE** 2012

**Transient crustal deformation in the South Iceland Seismic Zone observed by GPS and InSAR during 2000–2008**

J Decriem, T Árnadóttir  
Tectonophysics 581, 6-18, 2012

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**CONFERENCE** 2012

**Transient Deformation, Stress and Strain in the South Iceland Seismic Zone**

T Arnadóttir, J Decriem, S Hreinsdóttir, K Michalczewska, M Hensch, ...  
AGU Fall Meeting Abstracts 2012, T31D-2629, 2012

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**THESIS** 2011

**Crustal deformation from geodetic techniques: Earthquakes and plate movements in the South Iceland Seismic Zone**

J Decriem  
PhD thesis — University of Iceland

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**ARTICLE** 2010

**Intrusion triggering of the 2010 Eyjafjallajökull explosive eruption**

F Sigmundsson, S Hreinsdóttir, A Hooper, T Arnadóttir, R Pedersen, ...  
Nature 468 (7322), 426-430, 2010

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**ARTICLE** 2010

**The 2008 May 29 earthquake doublet in SW Iceland**

J Decriem, T Árnadóttir, A Hooper, H Geirsson, F Sigmundsson, ...  
Geophysical Journal International 181 (2), 1128-1146, 2010

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**ARTICLE** 2010

**Plate boundary deformation and man-made subsidence around geothermal fields on the Reykjanes Peninsula, Iceland**

M Keiding, T Árnadóttir, S Jónsson, J Decriem, A Hooper  
Journal of Volcanology and Geothermal Research 194 (4), 139-149, 2010

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**ARTICLE** 2010

**Overview of results from continuous GPS observations in Iceland from 1995 to 2010**

H Geirsson, T Árnadóttir, S Hreinsdóttir, J Decriem, PC LaFemina, ...  
Jökull 60 (1), 3-22, 2010

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**ARTICLE** 2010

**InSAR and GPS Measurements of the 29 May 2008 South Iceland Earthquake Sequence**

J Decriem, T Arnadóttir, A Hooper, H Geirsson, F Sigmundsson, ...  
ESA Special Publication 677, 48, 2010

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**CONFERENCE** 2010

**Inside the volcano: mapping the convoluted path of magma ascent in Eyjafjallajökull volcano with GPS and InSAR**

S Hreinsdóttir, A Hopper, T Árnadóttir, F Sigmundsson, R Pedersen, ...  
EGU General Assembly Conference Abstracts, 15759, 2010

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**CONFERENCE** 2010

**2000-2008 GPS measurements of postseismic deformation following the June 2000 earthquakes in South Iceland**

J Decriem, T Arnadóttir, H Geirsson  
AGU Fall Meeting Abstracts 2010, T53C-2147, 2010

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**CONFERENCE** 2010

**A geodetic source study of the May 2008 earthquake doublet in SW Iceland**

T Árnadóttir, J Decriem, S Hreinsdóttir, A Hooper, H Geirsson, ...  
EGU General Assembly Conference Abstracts, 8597, 2010

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**CONFERENCE** 2010

**Stresses changes from 2000 to 2008 in the South Iceland Seismic Zone**

J Decriem, T Arnadóttir, H Geirsson  
EGU General Assembly Conference Abstracts, 6386, 2010

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**ARTICLE** 2009

**A complex earthquake sequence captured by the continuous GPS network in SW Iceland**

S Hreinsdóttir, T Árnadóttir, J Decriem, H Geirsson, A Tryggvason, ...  
Geophysical Research Letters 36 (12), 2009

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**CONFERENCE** 2009

**A deep seated magmatic intrusion at Upptyppingar, Iceland, during 2007 and 2008**

H Geirsson, SS Jakobsdóttir, GB Guðmundsson, MJ Roberts, J Decriem  
The VOLUME Project, VOLcanoes: Understanding subsurface mass moveMEnt, 2009

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**CONFERENCE** 2009

**Natural and man-made deformation around geothermal fields on the Reykjanes peninsula, SW Iceland**

M Keiding, A Hooper, T Arnadóttir, S Jónsson, J Decriem

**CONFERENCE** 2009

**Transient Deformation During the 2000-2008 Earthquake Sequence in the South Iceland Seismic Zone**

J Decriem, T Arnadóttir, AJ Hooper, S Hreinsdóttir  
AGU Fall Meeting Abstracts 2009, G23A-0678, 2009

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**ARTICLE** 2008

**Spinning particles in Saturn's C ring from mid-infrared observations: Pre-Cassini mission results**

C Leyrat, C Ferrari, S Charnoz, J Decriem, LJ Spilker, S Pílorz  
Icarus 196 (2), 625-641, 2008

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**CONFERENCE** 2008

**Capturing crustal deformation signals with a new high-rate continuous GPS network in Iceland**

T Árnadóttir, H Geirsson, S Hreinsdóttir, S Jonsson, P LaFemina, ...  
AGU Fall Meeting Abstracts 2008, G43A-0650, 2008

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**CONFERENCE** 2008

**Unraveling faulting in a complex earthquake sequence in the South Iceland Seismic Zone.**

J Decriem, T Arnadóttir, H Geirsson, M Keiding, BG Ofeigsson, ...  
AGU Fall Meeting Abstracts 2008, T41A-1926, 2008

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**CONFERENCE** 2006

**Comparing numerical simulations of wakes with CIRS data: new constrains on the a ring's microphysics**

C Leyrat, S Charnoz, J Decriem, C Ferrari, LJ Spilker, ...  
AAS/Division for Planetary Sciences Meeting Abstracts# 38 38, 38.03, 2006

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**CONFERENCE** 2005

**APIS, a New Tool to Study Planetary Rings Images and Spectra**

J Decriem, P Didelon, A Brahic, S Charnoz, C Ferrari, AIM Team  
AAS/Division for Planetary Sciences Meeting Abstracts# 37 37, 61.05, 2005