

# HEITOR CREDIDIO

## Curriculum Vitae

### PERSONAL

Heitor Fernandes Credidio  
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Eligible to work in the EU

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### EDUCATION

**Doctor in Physics** Universidade Federal do Ceará, Brazil [2012 - 2016]

Involved analysis of larger datasets and implementation of optimization techniques like GPU parallelization. In collaboration with ETH-Zürich.

*Thesis: Schramm-Loewner Evolutions of Strongly Anisotropic Systems*

**Master in Physics** Universidade Federal do Ceará, Brazil [2010 - 2012]

Strong focus on data exploration, analysis and visualization.

*Dissertation: Statistical Patterns of Eye Movements in Visual Search*

**Bachelor in Physics** Universidade Federal do Ceará, Brazil [2006 - 2009]

*Monograph: Computer Simulation of Granular Materials*

### EXPERIENCE

**Teacher Assistant** Universidade Federal do Ceará, Brazil [07/13 - 12/13]

Supervised laboratory classes for engineering students.

**Temporary Lecturer** Universidade Federal do Ceará, Brazil [01/11 - 12/12]

Taught courses on introductory physics for science and engineering freshmen for four semesters.

### SCIENTIFIC ARTICLES

HPM Melo, HF Credidio, JS Andrade Jr

**Scaling and criticality in CO<sub>2</sub> emissions in the US (tentative title)**

(In progress)

HF Credidio, HJ Herrmann, AA Moreira, JS Andrade Jr

**Stochastic Loewner evolution relates anomalous diffusion and anisotropic percolation**

Physical Review E 93 (4), 042124 (2016) [[goo.gl/hRtp2Z](https://doi.org/10.1103/PhysRevE.93.042124)]

(To be presented in the XXVI STATPHYS in 2016)

HF Credidio, EN Teixeira, SDS Reis, AA Moreira, JS Andrade Jr

**Multiplicative processes in visual cognition**

In: Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade (2014) [[db.tt/C2qzVq9X](https://doi.org/10.1142/9789814614944_0001)]

HF Credidio, EN Teixeira, SDS Reis, AA Moreira, JS Andrade Jr

**Statistical patterns of visual search for hidden objects**

Scientific Reports 2: 920 (2012) [[goo.gl/cKhQQS](https://doi.org/10.1038/srep00920)]

(Presented in the Brazilian Physics Congress in 2011)

### SKILLS

#### Programming & Software

**Experienced** Python (numpy, pandas, matplotlib, among others), C, C++, GNU/Linux

**Sporadic Use** CUDA, Javascript, HTML/CSS, OS/X, Windows, Latex, Word, Power Point

**Basic Notions** R, SQL, Excel

#### Languages

English (Fluent) Portuguese (Native) French (Conversational)