

Sebastián Torrente Carrillo

Physics MS

Profile

With a population of almost 460,000, Manchester is the UK's third largest city yet widely regarded as Britain's second city and arguably the most exciting, cultural and forward-thinking. The decline of manufacturing and heavy industry in the 1980s and the subsequent dramatic rise in unemployment, provided a powerful catalyst for the city to regenerate itself and seek a new direction. And the main engine for this came in the wake of the IRA bomb attack in 1996.

Education

2001-2013 **Licenciate Degree in Physics**, *University of Murcia*, Murcia.
Equivalent to a BS+MS. Specialization in '*Electronics and automatics*'. I also developed an interest in computational physics and astrophysics.

Additional education

- 2012 **6.002x Circuits and Electronics**, *MITx*.
Took this course to refresh my knowledge in electronics and to test online education.
- 2012 **CS169.1x and 2x: Software as a Service**, *Edx*.
Took those two to learn Agile Development techniques, Ruby and Rails.
- 2012 **CS188.1x: Artificial Intelligence**, *Edx*.
Picked this one to practice with Python.
- 2008 **Statistical Analysis of Data with SPSS**, *University of Salamanca*, Salamanca.
Summer Course, 30 hours.
- 2008 **Schools of Mathematics Lluís Santaló. Aspect of operator algebras and applications**, *International University Menéndez Pelayo*, Santander.
Summer Course, 30 hours.
- 2007 **Quantum computation and topological orders**, *Complutense University of Madrid*, San Lorenzo del Escorial.
Summer Course, 30 hours.
- 2006 **Process Control: Applications in MATLAB-SIMULINK**, *UNED*, Ávila.
Summer Course, 35 hours.
- 1992-2001 **Bachelor of Music**, *Conservatory of Lorca*, Lorca.
Violin

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Experience

- 2006–Present **Freelance Card Game Designer**, *Edge Entertainment*.
Co-creator and Main Designer of a card game of future release.
Achievements:
◦ Won the board game design contest with the game 'Crisis: Tokyo'.
◦ Learnt how to manage a project: from the initial idea to the finished product.
- 2011–2012 **Editing and typesetting**, *FISPAC*, Murcia.
Edition, typesetting and correction in L^AT_EX of the book '*Progress on particle and nuclear physics*' (provisional title)
- September 2010 **Collaboration in the FISPAC stand in the Murcia's Science Fair 2010**, *FISPAC*, Murcia.
Design of posters and other material for the stand. Gave speeches about

Languages

- Spanish **Native** *Great level with a rich vocabulary even for a native.*
- English **Fluent spoken and written** *CEFR Level C2, ESOL Cambridge CAE Grade A*
- French **Basic** *Learnt during high school, I want to pick it up again.*

Computer Skills

- Python **Numpy, IPython** *Prefered language*
- L^AT_EX **MikTex and Texmaker** *Main choice for typesetting*
- Fortran **FORTRAN77** *Used in computational physics, switching to Numpy*
- MATLAB **Octave**
- Other **C, R**
- Tools **Git (Github)** *<https://github.com/SebastianTorrente/>*

Interests

- Electronics Design, assembly and soldering of small electronics devices. Last project: an arcade stick with detachable cable and compatible with various systems.
- Learning Acquiring new skills. Currently learning Ruby, SML and TkInter. Once I settle down I plan to learn German, French and some martial art as physical activity
- Game design Mainly card and boardgames. As stated above, I won a contest in card game design.
- Hobbies Taking online and summer courses, traveling, cooking, taking long walks, science fiction and martial arts cinema, model kits, comics and fighting games.

Personal Skills

- Lateral Thinker Crazy ideas may not be the correct ones all the time, but they are always interesting and worth exploring.

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Problem solving skills	With a good dose of a "let's fix it" attitude and very passionate. Doubly so if I have to learn new skills to tackle the problem. I'd like to insist about it: I really love to learn new skills, even if they don't seem practical at first.
Team worker	Silver tongue with great exposition skills. Supportive to others, happy to share and support ideas and fun to have around.
Curious and polymorphic	I just can't resist the temptation of trying my hand at tasks I've never done before and figuring out how things work.
Perseverant	Even in the direst circumstances I still push on.
Other	Driving license.

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