

Arturo ORTIZ-TAPIA

PERSONAL DATA

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WORK EXPERIENCE

- SEPT. 2001-APR. 2017 | Scientific Researcher at MEXICAN PETROLEUM INSTITUTE, Mexico City
Mathematical and Numerical Modeling
Developments that resulted in 3 patents, over 40 copyrighted computer programs, 5 internal reports, and two awards. Some results were published in 2 books and 1 refereed paper with over 40 citations, and over 10 congresses. Part of the research experience involved tutoring over 10 students and advising junior researchers
- SPRING 1997 | Assistant professor at CELAYA INSTITUTE OF TECHNOLOGY
Taught over 120 students on linear algebra and several of them sought me to be advised in other mathematical subjects. Won summer scholarship for attending courses for mathematical teachers at the Mathematics Research Center, Guanajuato, Mexico.

EDUCATION

- APRIL 2001 | Ph.D. in PHYSICS, **Czech Technical University**, Prague
90/100 | Major: Plasma Physics
Thesis: "Self-organization in Z-Pinches" | Advisor: Prof. Pavel KUBES
| with scholarship
- SEPTEMBER 1996 | M.Phil in CHEMISTRY, **Cambridge University**, U.K.
8/10 | Major: Computational chemistry
Thesis: "Chaos in inert gas clusters" | Advisor: Prof. David WALES
| with scholarship
- JULY 1994 | Undergraduate Degree in AGRICULTURAL and BIOTECHNOLOGIST ENGINEER
97.1/100 *Honours*, **Celaya University**, Celaya
Thesis: "Development of a new tissue culture for cloning" | Advisor: Patricia FRIAS-DÍAZ
| with scholarship

LANGUAGES

SPANISH: Mother tongue ENGLISH: TOEFL 1997 610/677 FRENCH: C1
CZECH: Intermediate GERMAN: Basic

COMPUTER SKILLS

Basic Knowledge: PYTHON, JAVA, C++, mysql, OCTAVE, GEOGEBRA
Intermediate Knowledge: FORTRAN, Spreadsheets, Text and Presentation Editors, LINUX, \LaTeX

INTERESTS AND ACTIVITIES

Science & Technology, Mathematics, Open-Source, Programming, Robotics, Sports, Travelling.