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Curriculum Vitae (resumed)

-1920 – Born at Lisbon.

After 5 years of military compulsory service (during World War II) :

-1946 – Graduation in Math. (4 years of Pure Applied) at Coimbra University.

-1947 – Graduation in Geographic Eng. In Science Faculty, at Porto University.

-1948 – Married to a secondary school teacher of Physics and Chemistry.

-1952 – Member of International Astronomical Union, and invited, as young astronomer, to attend the one month reunion in Rome.

-1956 – Visit, during 6 weeks, to the Time Department of Greenwich Observatory at Herstmonceaux.

-1959 – Doctorate (Ph. D.) in Pure and Applied Math. of Porto University, with the classification of 19 in 20.

- 1947 to 1959 – Also in charge of practical classes (36 h / week) of Descritive Geometry, Infinitesimal Calculus ($2^{nd\ year}$), Superior Analysis and P.D.E. and Topographic Design, with 3 to 4 hundred students (bad time for assistants, in those days…).

After 1947, in Applied Math. Department we started building up our Astronomical Observatory, and owing my aptness for Electronics (adquired mainly at the military service as a Transmissions Officer), I was in charge of the electrical and electronic parts of the project, under the direction of my former Prof. of Astronomy (Dr. Manuel de Barros, a great friend of the Astronomer Royal, Sir Harold Spencer Jones, the director of the Greenwich Observatory).

My thesis was the original report of all theoretical and practical works, done by myself alone, envolving Applied Math. (D.E.) and Electronics. Before the discussion of the thesis, the candidate was to be "interrogated" on subjects of a list of 12 themes, on Pure (6) and Applied (6) Math. My subjects, chosen randomly among the 12 (in the eve), were " Theorie of Geometric Inversion" and " Theoreme of Cauchy – Kovalewsky on P.D.E."

After the Ph.D., as first Assistant (now, Aux. Prof.), I was in charge of theorectical and some practical classes of Numerical Analysis and Probability, Errors and Statistics.

Later on, I taught also Topographie for the last year of the 5 years Courses of Civil, Electrical and Geographic Engineers.

- 1963/64 – As a senior visitor, I was one year in the Mathematical Laboratory of the Cambridge University, under the direction of the Prof. M. V. Wilkes, working with the EDSAC and in Electronics, in the Electronic Lab; the results of the work in Electronics and Diff. Eq. on EDSAC, were published in a booklet of Cambridge University.

- 1965 – Visit to England, during one month, in order to look for a digital computer for our University.

- 1967 – Received and installed a medium sise computer, in the "Laboratório de Cálculo Automático" (LACA) from the english factory Elliot (the 4130 system), to the ones existing in the Universities of Edimburgh, Kent and Reading (at least). It was the first computer in the portuguese universities, mainly used in scientifique computations.

- 1967/80 – Director of the LACA.

- 1971/75 – Also Director of the Astronomical Obs., because Prof. Manuel de Barros death.

- 1969 – After discussion by a juri of the curriculum and lecture about one of (randomly) 20 subjects, I was nominated Prof. Extraordinário (now, Associated Prof.).

- 1970 – After discussion of the curriculum and a lecture of my choice, I was nominated Professor Catedrático (Full Professor) of Applied Math.

-        I am, or have been member of some international organization, like IEEE, International Astronomical Union, Planetary Society, A. C. M., S. I. A. M., Math. Association, Association of Teachers of Math., I. M. A.

-        Because in those days computers arrived only with an Assembler Language and a compiler (of Fortran IV), I needed to develop some numerical subroutines for : Derivation, Integration, Linear Algebra, Diff. Equations, Approximation, etc., for the computer's users: users students and scientists. We needed to justify, through the users, the very high price of computers in those days.

-1980 – I quit the direction of LACA and nominated member of the "Instituto de Alta Cultura", the Portuguese equivalent to the old english Science Research Council.

-1990 – Jubilation from the Science Faculty of P.U. and invitation to the Universidade Portucalense (a private one), where is still teaching.

Titles of some publications :

-Exercícios de Geometria Descritiva (com colab.)

-Conservação da Hora no Observatório Astronómico da Universidade do Porto ("Time Service of….." – thesis)

-Método Simples de Cintilografia (com colab.)

-Unidade Visual para Recepção de Sinais Horários

-Cronógrafo Magneto-digital

-Digitalização do Círculo Meridiano de Espelho do Obs. Astr. Da U. P.

-Digital Recording of the Circle of the Oporto University Meridien Transit Circle (com colab.)

-Breve Introdução aos computadores Digitais Automáticos

-Breves Noções sobre Programação de um C.D.A. (linguagem simbólica)

-Elementos de FORTRAN

-7 Publications about Numerical Analysis

-More than twenty subroutines about Scientific Computation for the promotion of the computer's use: Functions Approximation (Interpolation, Least Squares), Gaussian Adaptive Numerical Quadrature, Numerical Linear Algebra, Integration of Diff. Equations, etc….