

Curriculum Vitae

Name: **Olimpia Figueras Mourut de Montppellier**

Place of Birth: Mexico City, Mexico

Date of Birth: March 2nd, 1944

- B.A. Mathematics (1962-1965) *Universidad Nacional Autónoma de México* (UNAM). Theses: Isomorphisms between Finite Group Algebras, Mexico (1966)
- M. Sc. Mathematics (1968-1974) *Instituto Politécnico Nacional* (IPN). Theses: Quadratic Fields with Euclidean Algorithms, Mexico (1976).
- D. Sc. Mathematics Education (1984-1988) Centro de Investigación y de Estudios Avanzados del IPN, (Cinvestav). Theses: Learning Difficulties within Two Teaching Models of Rational Numbers, Mexico (1988).
- Associateship of the Faculty of Education (1988-1989). King's College London, University of London. Report: Children's Ideas about Sharing and Partitioning Processes: An Exploratory Study for Curriculum Development, United Kingdom (1989).

Professional experience

- UNAM: Teaching Assistant (1964; 1964-65; 1965-66). Teacher: (1966-1967; 1967-1968 1996-1997). Course instructor (1978).
- National Polytechnique Institute: Teacher (1968-1974). Member of different Committees: Schooling (1972-73); Scholarship's (1972-1973).
- National Committee of Nuclear Energy: Research Assistant (1966); Researcher (1967)
- Research and Advanced Studies Centre (Cinvestav): *Instructor* (1975-76); *Investigador Adjunto* (1976-1990); *Investigador Titular* since 1991. In charge of Audiovisual Section of Mathematics Education (1980-81). Member of Academic Committee (1989-90, 1991-92); Library Committee (1989-90); Academic Evaluation Committee (1997-98). Head of the Mathematics Education Department since 2003.
- *Universitat de València*, Spain: Visiting lecturer (1996); Research Fellow (2000-01).

Research and curriculum development projects.

I have participated in the following projects with different types of responsibilities:

As a member of the team of researchers: (1979–1988) Teaching and learning rational number concepts; Cinvestav, Mexico (Director since 1984). (1988-1989) Nuffield Secondary Mathematics Project. University of London; Kathleen Hart, Director. (1996-1999) Ratio and proportion: Concept precursors, student's cognitive tendencies and methodologic approaches. A study with students of compulsory education; Universitat de Valencia, Luis Puig, Director. (1999) Educational Experimentation in the Baccalaureate of a Mixe Community. Mexican Ministry of Education, Cinvestav and National Pedagogical University (UPN); Marcela Santillán, Director. (1999–2001) Bounded and Unbounded Horizons: A system's approach to understanding children's conceptions of time. University of North Carolina, Belinda Hardin, Director.

As Director of the project: (1990–1992) Ethnomathematical knowledge about number concepts and operations (supported by Conacyt, (D113-904027)). (Cinvestav), Mexico. (1992–1994) Curriculum Design for Mathematics in the National Curriculum for Basic Education Reform; work carried out for the Ministry of Education, Mexico. (1993–1995) Informal knowledge about number concepts and operations, Mathematics Education Department, Cinvestav, Mexico. (2001–2006) Transfer processes of research results into the classroom: The case of low attainment in mathematics. (supported by Conacyt, G37301-S). (2004 – 2005) Curriculum development project set up to design a M.Ed. study

programme for in-service teachers of basic education.. Ministry of Education of the State of Mexico, Cinvestav, Mexico.

Consultancies

Ministry of Education (SEP): (1965) (Coordination) Revision of the Primary Mathematics Textbooks. (1985-1986) Mathematical Profile of Children in the Primary School, SEP-OEA. (1992) Reform of educational contents for the curriculum of compulsory education and of the materials for pupils and teachers. **National Council for Science and Technology (Conacyt):** Since 1994 – Reviewer of Research Project Proposals; in 2004 Member of Committee of Scholarships for Abroad Studies. **Other institutions:** 1994 -1995 1. Primary student's notions of ratio and proportion. UPN, Director: Edda Jiménez de la Rosa, Mexico. 2. Children's notions of space and form: A study with kindergarten children. 201 Unity of the UPN, in the State of Oaxaca. Director: Ernestina Martínez. 3. Counting, partitioning and sharing mechanisms. A study with kindergarten children. State of Nayarit. Director: María Adriana González. The three projects were supported by Conacyt-SEP.

Teaching experience

I have lectured in different educational institutions, mainly in Mexico, but also in 5 countries (Latin America and Spain); courses of mathematics and mathematics education.

The Mathematics Education Department of Cinvestav was founded April 1st, 1975. I am a member of the group of mathematicians directed by Eugenio Filloy and Carlos Imaz that builded up research linked with the teaching and learning mathematics. The group created two study programmes: M.Sc. in Mathematics Education, in 1975, and D.Sc. in Mathematics Education, in 1992. I have been supervisor of 6 D.Sc. and 23 M.Sc. At the *Universitat de València*, I supervised with Luis Puig, 1 D. Sc. in Mathematics Education. I have acted as external examiner in six D.Sc. examinations in the Universities of Granada and Valencia in Spain.

Comunications

Since 1965 I have made around 40 communications in different meetings, such as: National Congress of the Mexican Mathematics Society (SMM), International Conference of Mathematics Education (CIEM); Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA); Conference of the International Group for Psychology of Mathematics Education (PME); Reunión Centroamericana y del Caribe sobre Formación de Profesores e Investigación en Matemática Educativa (Mexico), Jornadas de Educación Matemática, Simposio Internacional de las Sociedades Españolas de Investigación en Educación Matemática (SEIEM) (Spain), CCURCAM-OEA (Honduras).

Publications

Mainly I have centered my writing activity on materials for teachers and students; I have participated in different groups among them are the following: (1975-1983 and 2001-2006) Collection of textbooks for the three grades of the Mexican Secondary Education. (1981-1984) Collection of 12 books for Tertiary Level. (1986) Collection of Book for primary Adult Education, SEP, Mexico. (1989) Part of the Nuffield Secondary Mathematics Project team, directed by Kathleen Hart - 7 booklets of the Collection for the English Secondary Education. (1999) Book for mathematics of the *Enciclopedia Escolar Brasileña de Nivel Básico*, directed by Luis Puig and edited by Cesar Coll y Anna, Teberovsky. (1999) (Director and author) Collection of 11 booklets about number concepts and arithmetic for the Baccalaureate in a Mixe Community.