Ph. D. Supervised

(All presented at Universidad Politecnica de Madrid, with maximum marks).
(Those marked with an asterisk have received the Extraordinary Prize for the Best Doctoral Thesis)

1) " Signal Processing in Optical Communications, with integrated electrooptical switches ".
J. M. López-Higuera, July 1989 *. *(Full Professor at Universidad de Cantabria).*

2) " Integrated electrooptical filters in Optical Networks ".
M. López-Amo, December 1989 *. *(Full Professor at Universidad Pública de Navarra).*

3) " Modal analysis applied to photonic switches based on nonlinear optics ".
F. J. Fraile-Pelaez, September 1990. *(Full Professor at Universidad de Vigo).*

4) " Photonic processing using fiber optic structures ".
J. Capmany, February 1991 *.*(Full Professor at Universidad Politécnica de Valencia).*

5) " All-fiber based filters in optical networks ".
P. Rodríguez Horche, September 1991.*(Full Professor at Universidad Politécnica de Madrid).*

6) " Photonic signal self-routing".
I. Sanz, March 1993 *.

7) " Residential wide band access networks ".
R. Diaz de la Iglesia, June 1994.

8) " Reciprocal and non-reciprocal optical fiber networks, with perturbations ".
J. L. Arce, July 1997. *(Full Professor at Universidad de Cantabria).*

9) " Electro-optical modulators and fiber gratings in photonic systems ".
D. Benito, June 1999. *(Full Professor at Universidad Pública de Navarra).*

10) " Fiber gratings in optical communications ".
A. Carballar, September 1999 *. *(Full Professor at Universidad de Sevilla).*

11) " Photonic signal processing using dualities in fiber gratings ".
J. Azaña, February 2001 *. *(Full Professor at INRS-Quebec, Canada).*

12) "Multiband Photonic Signals Analysis and Processing".
V. García Muñoz, June 2008. *(Photonics Test Engineer at IMEC, Leuven, Belgium).*

13) "Photonic Signal Processing with Resonant Structures".
M. A. Preciado, February 2010. *(Research Fellow at University of Glasgow, Scotland, UK).*

14) "Arbitrary waveform generation based on Microwave Photonics Technology for Ultrawideband applications".
V. Moreno, November 2016. (*Dr. Ing. at Vodafone, Dusseldorf, Germany)*