

DEPARTMENT OF ECONOMICS SECOND CYCLE DEGREE

IN

ECONOMICS AND ECONOMETRICS

Dynamic Matrix Factor Models and the EM Algorithm: A Nowcasting Framework for Mixed-Frequency Data in the Euro Area

Dissertation in Macroeconometrics

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General Overview

Research Focus:

Identify the causal effects of labor supply response to severe health shocks in the short and medium run

Fatal Health Shocks

- Significant increase in spousal labor supply.
- Result driven by significant income losses.

Nonfatal Health Shocks

- No significant effect on spousal labor supply.
- Result driven bu adequate social insurance coverage.

Key Implication:

Labor supply serves as a **self-insurance mechanism** for families.