

# Structural Empirical Methods for Labor Economics (and Industrial Organization)

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IDEA PhD Program

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**References:** Miller (1984), Wolpin (1984), Pakes (1986), Rust (1987), Hotz and Miller (1993), Reiss and Wolak (2007)

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**References:** Diamond, McFadden and Rodríguez (1978), Bartik (1991), Arellano and Bond (1991), Katz and Murphy (1992), Arellano and Bover (1995), Olley and Pakes (1996), Blundell and Bond (1998, 2000), Krusell, Ohanian, Ríos-Rull and Violante (2000), Borjas (2003), Levinshon and Petrin (2003), Antràs (2004), León-Ledesma, McAdam and Willman (2010), Acemoglu and Autor (2011), Ottaviano and Peri (2012), Akerberg, Caves and Frazer (2015), Jeong, Kim and Manovskii (2015), Aguirregabiria (2019), Gandhi, Navarro and Rivers (2020), Goldsmith-Pinkham, Sorkin and Swift (2019), Llull (2020), Albert, Glitz and Llull (2020)

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**References:** Berndt, Hall, Hall and Hausman (1974), Miller (1984), Wolpin (1984), Heckman and Singer (1984), Pakes (1986), Rust (1987), Eckstein and Wolpin (1989), Hotz and Miller (1993), Rust (1994), Keane and Wolpin (1994, 1997), Miller (1999), Adda and Cooper (2003), Lee and Wolpin (2006), Todd and Wolpin (2006), Aguirregabiria and Mira (2010), Keane, Todd and Wolpin (2011), Llull (2018)

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*V. Application: Lull (2020)*

**References:** Dempster, Laird and Rubin (1977), Heckman and Singer (1984), Hotz and Miller (1993), Hotz, Miller, Sanders and Smith (1994), Altuğ and Miller (1998), Miller (1999), Aguirregabiria and Mira (2002, 2010), Arcidiacono and Jones (2003), Arcidiacono and Ellickson (2011), Arcidiacono and Miller (2011), Keane, Todd and Wolpin (2011), Lull (2020)

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**References:** Hotz and Miller (1993), Hotz, Miller, Sanders and Smith (1994), Margiotta and Miller (2000), Gayle and Miller (2009, 2015), Gayle, Golan and Miller (2015), Khorunzhina and Miller (2019)

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**References:** Kiefer and Neumann (1979), Flinn and Heckman (1982), Wolpin (1987), van den Berg (1990), Mortensen and Pissarides (1994), Burdett and Mortensen (1998), van den Berg and Ridder (1998), Mortensen and Pissarides (1999), Abowd, Kramarz and Margolis (1999), Postel-Vinay and Robin (2002), Eckstein and van den Berg (2007), Keane, Todd and Wolpin (2011), Rogerson and Shimer (2011), Hagedorn, Law and Manovskii (2017), Lise and Robin (2017), Bartolucci, Devicienti and Monzón (2018), Bagger and Lentz (2019), Bonhomme, Lamadon and Manresa (2019)

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**References:** Hotz and Miller (1993), Hotz, Miller, Sanders and Smith (1994), Ericson and Pakes (1995), Bajari, Benkard and Levin (2007), Pakes, Ostrovsky and Berry (2007), Aguirregabiria and Mira (2007, 2010, 2019), Pesendorfer and Schmidt-Dengler (2008, 2010), Kasahara and Shimotsu (2009), Arcidiacono and Ellickson (2011), Ryan (2012), Aguirregabiria (2019)

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### *V. Application: Barkley, Groeger and Miller (2020)*

**References:** Paarsch (1992), Donald and Paarsch (1993, 1996, 2002), Laffont, Ossard and Vuong (1995), Hendricks and Paarsch (1995), Guerre, Perrigne and Vuong (2000), Hong and Shum (2000, 2003), Haile and Tamer (2003), Bajari and Hortaçsu (2004) Paarsch and Hong (2006), Hendricks and Porter (2007), Athey and Haile (2007), Hickman, Hubbard and Sağlam (2012), Barkley, Groeger and Miller (2020)

## GRADING

Final exam: 40%. Problem sets: 25%. Research proposal/term paper: 35%.

## RESEARCH PROPOSAL

As a part of the evaluation process (35% of the final grade), students need to elaborate a research proposal. The research proposal consists of a novel research project. The expected development stage of the project is less than that of a standard “term paper”, but its ambition is expected to be larger. The proposals will be carried individually. Proposals should include motivation, related literature, a structural model, and a detailed description of identification, estimation, and proposed counterfactual/policy exercises. The format of the proposal is expected to

be that of the first few sections of a standard Structural Microeconometrics paper (i.e., all typically included sections except the results). The expected length is 8-12 pages, even though different lengths are acceptable subject to pre-approval. While all topics covered in the course are allowed, the proposals that use simpler modeling frameworks will be discounted, and further creativity will be expected in exchange, everything else constant. Each student will prepare a 20 minute presentation of the project, which will be delivered in class in the last few sessions. The order of presentations will be determined randomly in class.

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Barcelona, January 2020.

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