

# Ali Darudi



## Personal Information:

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**Address** Büros 3.37 - Wirtschaftswissenschaftliche Fakultät -  
Peter Merian-Weg 6 - 4002 Basel - Switzerland

## Education and Qualifications

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| Oct 2015 - present  | University of Basel, Switzerland -Faculty of Business and Economics<br>PhD candidate in Applied Economics<br>Supervisor: Hannes Weigt  |
| Jan 2016 - Jan 2017 | Swiss Program for Beginning Doctoral Students at the Study center<br><b>Gerzensee</b> (a foundation of the Swiss National Bank): 13 full weeks of<br>Courses in Econometrics, Macroeconomics and Microeconomics                        |
| 2017                | The Swiss Graduate Program Environmental & Energy Economics<br>(Meredith Fowlie and Max Auffhammer), Basel<br>Cologne International Energy Summer (CIES) in Energy and<br>Environmental Economics (Richard Green and Werner Antweiler) |
| 2011 to 2014:       | Ferdowsi University of Mashhad<br>M.Sc. in Electrical engineering – Power engineering<br>Supervisor: Professor M.H Javidi  |
| 2007 – 2011:        | Ferdowsi University of Mashhad<br>B.Sc. in Electrical Engineering  |

## Research Interests:

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- Energy Economics - Electricity Markets
- Renewable Energy and Environmental Policies
- Electricity Market Design
- Game Theory
- E-mobility

## Honors and Awards

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- Scholarship for "PhD program in Applied Economics" from University of Basel – 2015
- Scholarship for the Master program - Ranked in top 10% among bachelore students of Power Engineering - 2011
- Scholarship for the Bachelore program - Ranked in the top 1% of nation-wide college entrance exam in mathematics & physics group - 2007
- Awarded as the Best Paper in the 27th International Power System Conference (PSC2012)

## Publications

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### Work in progress:

Darudi, Ali and Weigt, Hannes “Renewable Support, Intermittency and Market Power, An Equilibrium Investment Approach”

Darudi, Ali and Weigt, Hannes “Comparison of support schemes for renewable energy sources: a game theoretical approach”

## Journal Papers:

**Darudi, A.** Bashari, M. Javidi M.H. "Electricity price forecasting using a new data fusion" IET Generation, Transmission & Distribution, Vol:9, Issue: 12, pp:1382-1390, 2015.

## Conference papers:

- **Darudi A**, Zomorodi A, Javidi MH "Effects of bidding data disclosure on unilateral exercise of market power," The International Conference on Control, Electronics, Communication and Smart Grids (ICCECSG), 2014, Mashhad, Iran.
- **Darudi A**, Yektay N, Zarif M, Javidi M.H. "Analyzing bidding behavior of generating companies in Iran's electricity market," International power system conference (PSC 2012), Tehran, Iran (**Best paper award**)
- **Darudi A**, Rezaifar S, Javidi MH "Partial mutual information based algorithm for input variable selection for time series forecasting," 13<sup>th</sup> International Conference on Environment and Electrical Engineering (EEEIC13), Wroclaw, Poland.
- Bashari M, **Darudi A**, Raeyatdoost N "Kalman fusion algorithm in electricity price forecasting", in 14th International Conference on Environment and Electrical Engineering (EEEIC ), Krakow, Poland, 2014.
- Kafash M, **Darudi, A**, Javidi MH "A method to model and forecast seasonal load duration curve," International power system conference (PSC 2014), Tehran, Iran.
- Yektay N, **Darudi A**, Javidi MH "An Optimal Power Flow Control Method for Grid-Connected Inverters," 13th International Conference on Environment and Electrical Engineering (EEEIC13), Wroclaw, Poland, 2013.
- Kaffash M, **Darudi A**, "Analyzing simulation software of photovoltaic systems," 2<sup>nd</sup> Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), Tehran, Iran.

## Work experience

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**Sep 2014 to Sep 2105** R&D research assistant in Toos Fuse Company. Working on advanced metering infrastructure (AMI) and smart metering (FAHAM).

**2012 to 2014** Research assistant at Power System Studies and Restructuring Research (PSRES) laboratory, Ferdowsi University of Mashhad, Mashhad, Iran.

**2011** Research assistant at NapCo: working on designing financial derivative power exchange for Iran, Mashhad, Iran.

**Summer 2010** Research assistant at Khorasan Regional Electricity Company – Transmission line posts (internship), Mashhad, Iran.

## Teaching/Academic Experience

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- Mentor in MOOC course: "Exploring Possible Futures, Modeling in Environmental and Energy Economics," by Frank Krysiak and Hannes Weigt, University of Basel.
- Reviewer of Energy Economics and IEEE Transactions on Power Systems.
- Teaching assistant and bachelor student supervision at Ferdowsi University of Mashhad.

## Programming Skills

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- Proficient in MATLAB and GAMS.
- Familiar with Stata and Mathematica.

## Hobbies

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Football, Futsal, Tennis, Skiing and Reading.

## References

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Assistant Professor Hannes Weigt  
Faculty of Business and Economics  
University of Basel, Switzerland  
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Professor **Mohammad Hossein Javidi**  
Dept. of Electrical Engineering  
Ferdowsi University of Mashhad (FUM)  
E-mail:hossein\_javidi@yahoo.com,