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# Online Courses

## Status report

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## Research Questions

- Which factors are related with student's success?
- Determine the impact of individual factors on success (independent variable/s to dependent variable)?

# Data

Open dataset - HarvardX-MITx Person-Course Academic Year 2013

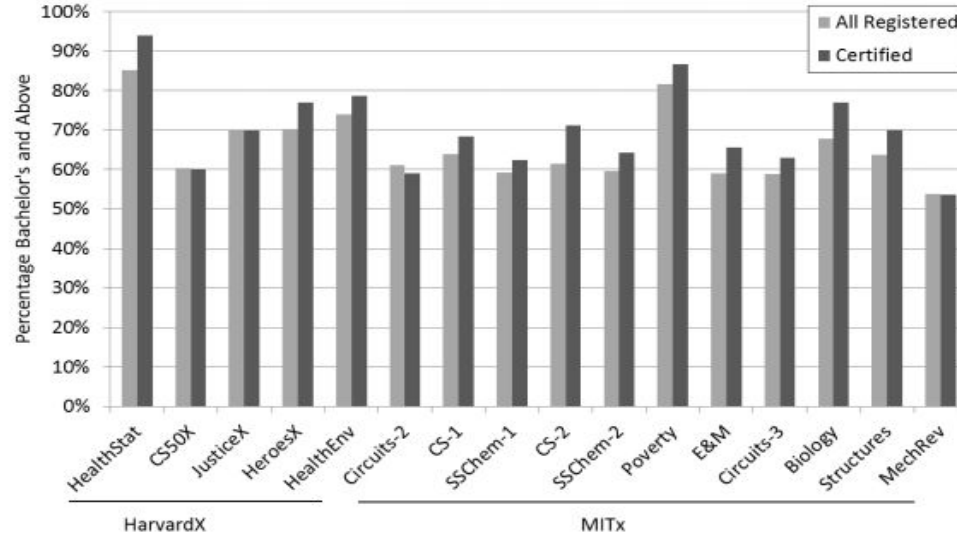
- Dependent variable: grade
- Independent variables: education level, gender, country of origin, level of interaction with courses...
- Control variable: course

# Research methods

- Correlation analysis
- Regression analysis
- Matching methods

# Related work

HarvardX and MITx: The First Year of Open Online Courses (MITx Working Paper #1)



**Figure 4.** Percentage of registrants who reported completion of a bachelor's degree or higher, among all registrants (light gray) and certificate-earners (dark gray) who report their education level in each course. (Nonresponse rates from 3-6% across courses.)

## Related work

HarvardX and MITx: The First Year of Open Online Courses (MITx Working Paper #1)

**Table 7. The top 30 countries, by certification rate, for countries with registrations > 1000.\* Numbers of registrations by country and percentages of total HarvardX- and MITx-wide registrations also shown.**

Country	Certification Rate (Certified / Registered)	Number Registered	Percentage of Total
Spain	13.74%	16,926	2.24%
Greece	12.05%	10,385	1.37%
Czech Republic	11.89%	1,994	0.26%
Hungary	11.09%	2,462	0.33%
Poland	10.89%	8,396	1.11%
Croatia	10.75%	1,126	0.15%
Belarus	10.61%	1,103	0.15%
Italy	10.04%	5,018	0.66%
Bulgaria	9.78%	2,463	0.33%
Switzerland	9.29%	2,358	0.31%
Russian Federation	9.23%	15,294	2.02%

## Related work

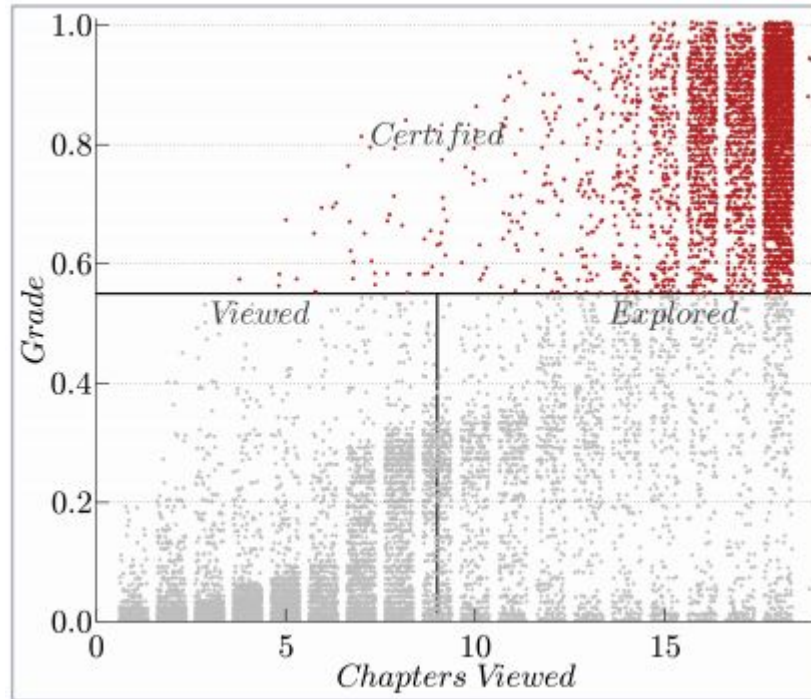
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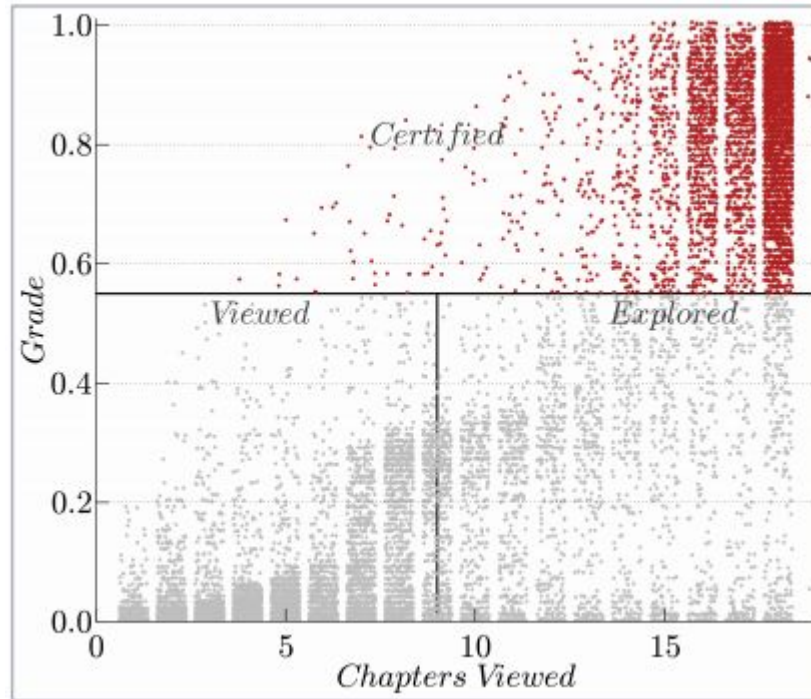
3.091x Introduction to Solid State Chemistry - Fall 2012 MITx Course Report (MITx Working Paper #2)





# Related work

3.091x Introduction to Solid State Chemistry - Fall 2012 MITx Course Report (MITx Working Paper #2)



# Related work

INTERNATIONAL CONFERENCE of SCIENTIFIC PAPER  
AFASES 2014  
Brasov, 22-24 May 2014

## **ANALYSIS OF THE ECONOMIC PERFORMANCE OF A ORGANIZATION USING MULTIPLE REGRESSION**

**PhD Flavia FECHETE\*, Prof.univ.dr. Anisor NEDELCU\*\***

# Related work

[http://www.afahc.ro/ro/afases/2014/manag/Fechete\\_Nedelcu\\_b.pdf](http://www.afahc.ro/ro/afases/2014/manag/Fechete_Nedelcu_b.pdf)

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## Related work

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Regression analysis is used for:

- estimation of a variable holding values of another / other variables;
- assessment of the measure that the dependent variable can be explained by the independent variable or a set of independent variables;
- identification of a subset of several independent variables to be taken into account to estimate the dependent variable.

## Related work

<https://files.eric.ed.gov/fulltext/EJ854316.pdf>

Using regression analysis to establish the  
relationship between home environment and reading  
achievement: A case of Zimbabwe

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The dependent variable in this study was READING SCORE and it was measured by a reading test. The independent variables were several home environment variables

## Related work

[https://link.springer.com/chapter/10.1007%2F978-1-4020-9628-0\\_2](https://link.springer.com/chapter/10.1007%2F978-1-4020-9628-0_2)

### The Use of Matching Methods in Higher Education Research: Answering Whether Attendance at a 2-Year Institution Results in Differences in Educational Attainment

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