Scholarships at CIC-IPN, Mexico

MSc and PhD

Freedom for research, without worrying about money

Agenda

- Scholarships from Mexican Government
- Mexico
- CIC-IPN
- Admission requirements
- Graduation requirements
- CIC, more details
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• MSc: ~ \$ 600, PhD: ~ \$ 800 per month

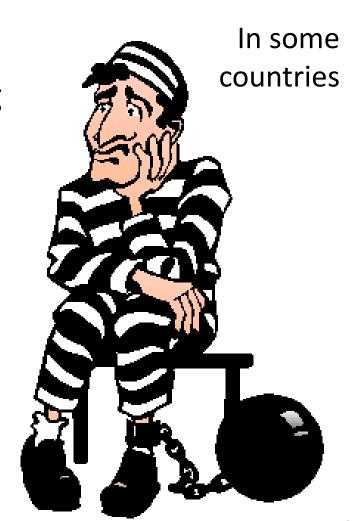


- MSc: ~ US\$ 600, PhD: ~ US\$ 800 per month
- Sufficient to live without working for money
 - Not to get rich quick
 - Rent a room: from \$ 100
 - Eat: from \$ 150
 - Tuition: free \$ 50
 - Spare \$ 500? hmm... won't be much



- MSc: ~ US\$ 600, PhD: ~ US\$ 800 per month
- Sufficient to live without working for money
- Optionally* ~ \$ 80 more

- No service required
 - in some countries, teaching assistance or other job
- Not a loan
 - in some countries, loan



- No service required
 - in some countries, teaching assistance or other job
- Not a loan
 - in some countries, loan
- Gift:
 - graduate and go, no debt

In Mexico



- Given by federal government (CONACYT)
- Given to all students
 - For excellence of department, not individual
 - Everybody* who is enrolled, gets scholarship

- MSc: 2 years (option* 2.5 years), PhD: 4 years
- Face-to-face, full time
 - 8 hours a day should be there
 - well, exceptions are possible
 - option for stays abroad from months to a year
- Incompatible with other income
 - though...



Stays abroad

- "Mixed scholarship" from the Government
- Government: + ~ 50%; school: ~ \$ 500 once
- In England: "I am hungry"
- From weeks to a year
- To any country
 - no, ought not be your home
- Not obligatory



Need to learn Spanish?

No

- Classes in English OR Spanish, by your choice
- We have students from India, Pakistan, Bangladesh,
 Russia, Nigeria, Iran not speaking Spanish at all
- People in the street often understand some English
- Well, a plus
 - Easier to live speaking local language a bit
 - Spanish is quite similar to English

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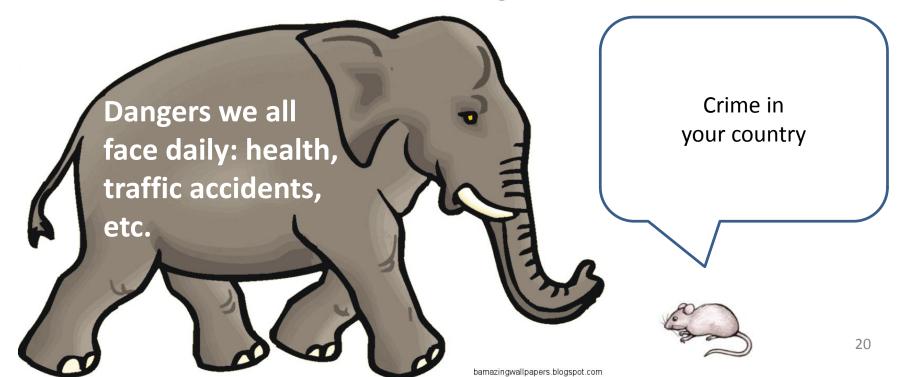
Dangerous?

- No
- Not much more than any country
 - You may be safer in Mexico City than in your home country
 - Imagine all scaring news
 we see on TV about your country



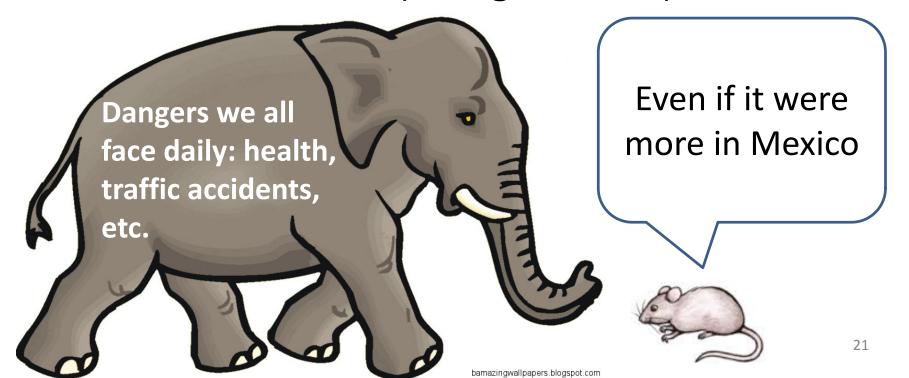
Dangerous?

- No
- Not much more than any country
- And even if it were (though it's not)



Dangerous?

- No
- Not much more than any country
- And even if it were (though it's not)



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IPN

- Instituto Politécnico Nacional
- Governmentally run
 - Rector is designated by the President of country
- Second largest
 - 175-300 thousand students
 - 300 schools
- 80 years

CIC

- Centro de Investigación en Computación
- Leader in computers science in Latin America
- Elitist
 - Many governmentally certficied researchers
 - 5 members of Mexican Academy of Sciences
- Small school
 - 200-500 MSc students, 50 PhD students
- Certified program of excelence (= scholarship)



Contact with your country / world

- Up to 2 advisors
 - not co-advisors: equal
 - one must be from the CIC
- You can keep your current advisor
 - add one from the CIC
- Mexico gives \$\$\$
 & you work with your current advisor
- Joint publications are expected

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Certified program of excellence

- Very demanding certification
- Gives scholarship to all enrolled students
- Very important criterion: graduation rate
 - not a single day past the deadline
- If certification is lost, death for the program:
 no scholarhip, no students, no publications, ...
- Goal of admission: guarantee graduation

A promise

Not to desert

- because of revolution in your country
- because of an aunty who fell ill at home
- because Microsoft offered you a position
- Defend the thesis on time
 - not a single day past the deadline

- No need to travel
- Everything, well in advance
 - Visa, takes time

- No need to travel
- Everything, well in advance
- GRE Revised General Test (or EXADEP)
 - in your home country
 - US\$ 300
 - Accessible threshold
 - Cuantitative, cualitative, writing

- No need to travel
- Everything, well in advance
- GRE Revised General Test (or EXADEP)
 - in your home country
 - US\$ 300
 - Accessible threshold
 - Cuantitative, cualitative, writing
 Only math, not English. 170 0 0 is OK.
 - Need to book well in advance!

- No need to travel
- Everything, well in advance
- GRE Revised General Test (math)
- TOEFL / IELTS (or many other options)
 - in your home country
 - US\$ 70
 - MSc: ITP 400 (not IBT)
 - PhD: IBT 75 (not ITP)

- No need to travel
- Everything, well in advance
- GRE Revised General Test (math)
- TOEFL / IELTS (or many other options)
- Interview (via Skype), not an exam

- No need to travel
- Everything, well in advance
- GRE Revised General Test (math)
- TOEFL / IELTS (or many other options)
- Interview (via Skype), not an exam
- PhD: proposal
 - Objetives, metodology, evaluation, resources...
 - Though later you can switch to another topic

Requirements

MSc: Engg

• PhD: MSc

in theory, can be waived

Requirements

- MSc: Engg; PhD: MSc
- Average scores
 - previous level
 - simple average of all subjects taken
 - if you have good average, probably you pass
 - we will need stats from your university or country to evaluate
 - if do not pass, then will miss the scholarhip of first semester, and get it from the second semester

Requirements

- MSc: Engg; PhD: MSc
- Average scores
- PhD: letter from advisor + 3 letters from PhDs
- Documents with apostille
 - Birth certificate
 - Degree certificate (perhaps can be later)
 - Transcript of scores of all semesters
 - This takes time, do it well in advance

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Graduation

- Not to fail subjects (MSc: 10, PhD: 4)
- Not to miss classes / hours (8 hours a day*)
- Write a tesis (~ 100 pages)
- MSc: that's all
 - though it's a great plus to publish, to pass to PhD
 - or, build software
- PhD: a paper in SCIE
 - not conf
 - a plus, several / many

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Programs

- MSc hardware
- MSc software
- PhD (hardware & software)
- More emhpasis on software
- Certified of excellence (= scholarships)
- Research -- not a school
 - Not to just learn how to program
 - You will be a researcher

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Laboratories

- 11 "laboratories" (departments)
- Hardware
 - nano-technology, robotics, CPUs, ...
- Software
 - IA; NLP; neural, quantum, DBs; control; security and criptografy; parallel, ...
 - basically, all CS
- 100+ research lines

Subjects

- PhD: ad-hoc, relevant for your thesis
- MSc:
 - 5 obligatory
 (OS, complexity, advanced programming, ...)
 - 5 you choose, by laboratory
 - Of these, 2-5 "relevant for industry"
 - 5 first semester, 5 second, then thesis
- In English (or Spanish)

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NLP Lab

- 23 years of experience
- 3 professors (Russians)
- 30-40 students from Bangladesh, Colombia, Cuba, India, Iran, Mexico, Nigeria, Pakistan, Russia, Ukraine, Vietnam; former: Finland, Spain, Paraguay, Peru
- Advisees in: Colombia, Korea, Mexico, UK

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NLP Lab

- 23 years of experience
- 3 professors (Russians)
- 30-40 students from many countries
- PhD preferred, MSc OK
- Contacts with many countries
 - CICLing conference, 8th best in NLP
- National presence
 - Expresidents of Mexican Al Socity, etc.

NLP Lab

International collaboration

- USA: U. Michigan
- UK: U. Wolverhampton
- Singapore: NTU (11th in the world)
- Greece: U. Aegean
- India: Jadavpur U. Kolkata, NIT Silchar, Amity etc.

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- Natural Language Processing
 - Computational linguistics and language technologies
 - Machine learning for NLP
 - Deep learning for NLP
 - Big data analysis for textual data
 - Semantic web
 - Dialog with robots
 - Text mining
 - Question answering

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- Natural Language Processing
- Social and affective computing
 - Social network analysis; Internet
 - Opinion mining, sentiment analysis, emotion analysis, personality detection
 - Computing for law
 - Plagiarism detection and authorship attribution
 - Music generation

- Natural Language Processing
- Social and affective computing
- Intelligent data analysis
 - Fuzzy logic applications
 - Financial analysis and market analysis
 - Association measures and similarity measures for texts and time series

- Natural Language Processing
- Social and affective computing
- Intelligent data analysis

... and much more

- Student-driven research planning
 - if you have your own idea, we will work on it
 - we adapt to your interests

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Awards received by students

- Half, graduated with honors
- More than half of PhD graduated, certified (!)
- 4 gold medals from handed by the President
- Microsoft Research Latin America Fellowship
 - "The best and brightest from Latin America"
 - Second woman
 - huge monetary prize

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Awards received by students

- Half, graduated with honors
- More than half of PhD graduated, certified (!)
- 4 gold medals from handed by the President
- Microsoft Research Latin America Fellowship
- Internships Microsoft, Oracle, Yahoo!, Xerox, ...
- Best team in plagiarism detection
 - 27 articles in national press
- 2nd place in question answering, ...



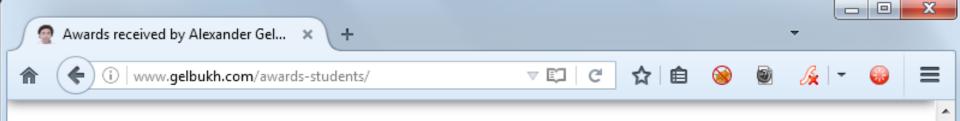
Awards

received by the students advised by Alexander Gelbukh

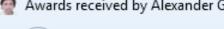
Membership in SNI - International fellowships and internships - Lázaro Cardenas Gold Medal - Other Important Institutional Awards - National and International Awards - Institutional Awards - International Competitions of Algorithms - Honors Degrees

Membership in SNI

SNI (National System of Researchers) is a certification authority for Mexican researchers funded and supervised by the CONACYT, the Mexican Ministry of Science and Technology. Membership in SNI comes with a substantial monetary award. Mexican scientists are evaluated every four years and can win one of four excellence levels (if any), from Candidate (lowest) to 3 (highest; a distinction of great importance for a Mexican scientist).



- Level 2: Manuel Montes y Gómez, PhD, advisors Alexander Gelbukh and Aurelio López López
- Level 1: Olga Kolesnikova (Russia), PhD, advisor Alexander Gelbukh
- Level 1: Yulia Ledeneva (Russia), PhD, advisor Alexander Gelbukh
- Level 1: Sofía Galicia Haro, PhD, advisors Igor Bolshakov and Alexander Gelbukh
- Level 1: Raúl Morales Carrasco, PhD, advisors Alexander Gelbukh and Ruslan Mitkov
- Level 1: Juan Javier González Barbosa, PhD, advisors Rodolfo Pazos Rangel and Alexander Gelbukh
- Level 1: Francisco Hiram Calvo Castro, PhD, advisor Alexander Gelbukh
- Devel 1: José Antonio Zárate Marceleño, PhD, advisors Rodolfo Pazos Rangel and Alexander Gelbukh
- Devel C: Sulema Torres Ramos, PhD, advisor Alexander Gelbukh
- Devel C: Grettel Barceló Alonso (Cuba), PhD, advisors Alexander Gelbukh and Grigori Sidorov
- Devel C: Sabino Miranda Jiménez, PhD, advisors Alexander Gelbukh and Grigori Sidorov
- Devel C: Alma Delia Cuevas Rasgado, PhD, advisors Adolfo Guzmán Arenas and Alexander Gelbukh





i www.qelbukh.com/awards-students/

















International Fellowships and Internships

awarded via an open competition

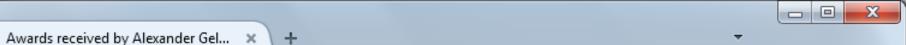


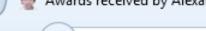
Alisa Zhila (Russia) received a Microsoft Research Latin America Fellowship 2012-2013.

According to Microsoft, the fellows "represent the best and the brightest from Latin America." Two Microsoft Research Latin America Fellowships are awarded each year. The selection procedure was as follows: each Latin American university nominated no more than three candidates; of those pre-selected candidates. Microsoft selected two winners. There were about 60 candidates in this year, from about 40 universities from all Latin American countries

The prize received considerable press coverage, e.g., see an article in Gaceta Politécnica (PDF) and very interesting videos. In Google you can find many press releases about Alisa Zhila.

Alisa Zhila was at the time of awarding a PhD student at CIC-IPN (graduated in 2014); advisor: Alexander Gelbukh.

























Sergio Gonzalo Jiménez Vargas (Colombia) received a Microsoft Research Latin America Internship 2012. The internship includes three months of work at Microsoft Research, with salary paid. Seven Microsoft Research Latin America internships are awarded each year. The selection procedure was as follows: each Latin American university nominated no more than three candidates; of those pre-selected candidates, Microsoft selected seven winners. There were about 60 candidates in this year, from about 40 universities from all Latin American countries.

Sergio Gonzalo Jiménez Vargas is a PhD student at the Universidad Nacional de Colombia: advisor: Alexander Gelbukh.



Alisa Zhila (Russia) received a Microsoft Research Latin America Internship 2012, which was offered to her as a Microsoft Research Fellow. The internship included three months of work at Microsoft Research in Redmont, with salary paid.

Alisa Zhila was at the time of internship a PhD student at CIC-IPN (graduated in 2014); advisor: Alexander Gelbukh.

Alisa Zhila (Russia) was awarded a 3 month internship at Oracle Mexico Development Center, Guadalajara, Jalisco, Mexico, 2014.





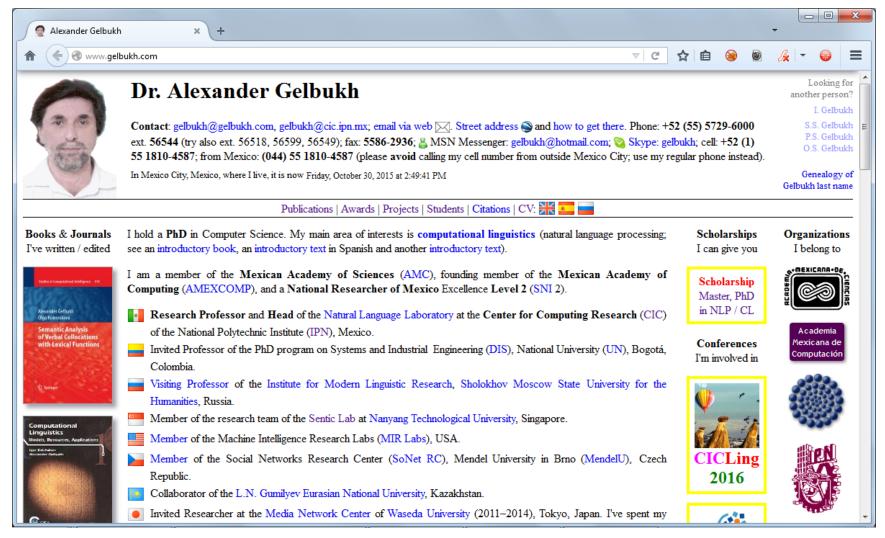
We expect you to be on this list

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www.Gelbukh.com



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Scholarships:

Master's and PhD in Natural Language Processing

The Natural Language Processing Laboratory of the Center for Computing Research (CIC) of the National Polytechnic Institute (IPN), Mexico City, Mexico, offers a limited number of scholarships to international students for earning Master's or PhD degree in Computer Science with a thesis in the area of Natural Language Processing. After earning a Master's degree, the students are encouraged to apply for the PhD level, and (if they pass) the scholarship is extended accordingly.

Topics include, but are not limited to, all areas of Natural Language Processing (NLP), Computational Linguistics (CL), Human Language Technologies (HLT), and related areas. See our publications and defended theses for examples of our research interests.

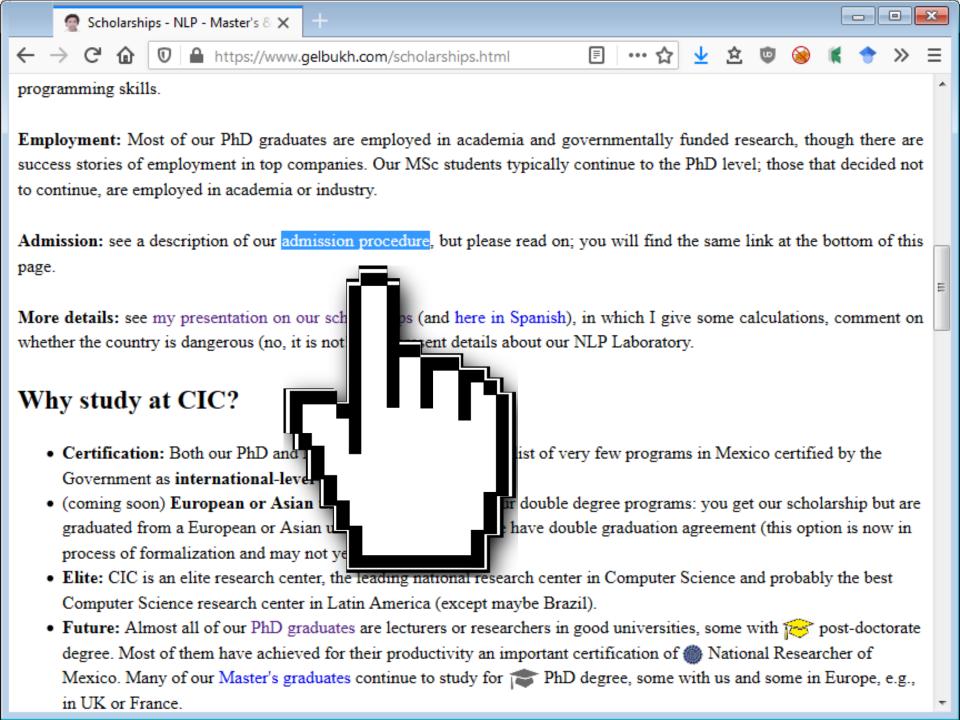
Amount of scholarship: Master's 600 USD, PhD: 800 USD per month approx (including vacations; here can be updated info in Spanish). This is quite enough for normal living and renting a room in Mexico City.

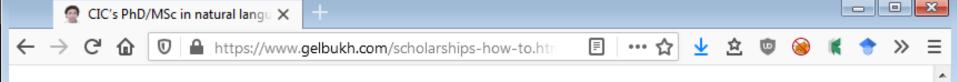
Duration: Master's: up to 2 years, PhD: up to 4 years.

Type of program: Research. Both programs are oriented to scientific research and publication rather than to improving your programming skills. Most of our graduates are employed in academia and (governmentally funded) research.

Why study at CIC?

Certification: Our Master's program is one of very few programs in Mexico certified by the Government as an international excellence program.





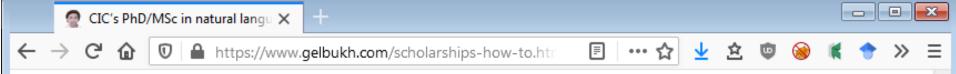
How to apply for CIC's Master's and PhD in Computer Science program

Alexander Gelbukh

Whenever I worried I wasn't going to finish my PhD – I looked at the people dumber than me finishing theirs, and I would think to myself, if that idiot can get a PhD, dammit, so can I.

Olin Shivers, cited by Matt Might

- 1. Important notes
- 2. Read carefully the call
 - 1. FAQ
- 3. Decide if CIC is for you
- 4. Plan your time
- 5. Contact your future advisor
- 6. Suggest a research topic
- 7. Write your research proposal (PhD only)
- 8. Book a date for external exams well in advance; An important note on the English exam
- 9. Send the document set to your advisor and discuss it with him or her
- 10. Prepare the official submission and show it to your advisor



2. Read carefully the call

The table lists the current call and the past call, which is similar to the next one.

		MSc		PhD	
		Similar to next	Closed	Similar to next	Closed
To be enrolled in		Fall intake	Spring intake	Fall intake	Spring intake
Call in English with my comments		MSc: Call & comments	MSc: Call & comments	PhD: Call & comments	PhD: Call & comments
Deadlines (note *)	Web form registration	May 12, 2019	ĪL	May 12, 2019	Nov 9, 2019
	Proposal (PhD)				
	Formal documents				
	External exam certificates	June 21, 2019	D	<u>- 2</u> 1, 2019	Dec 6, 2019
	Local English exam option (see other options)	Apr 12, 2	N	019 ed)	Nov 5, 2019 (ok if passed)
	Enrollment	August 201		19	January 2020
he deadline: Please contact your future advisor today, dand the proposal takes a lot of time. On the other hand, we					adline: prepari

* Note on the deadline: Please contact your future advisor today, deadline: preparing the documents and the proposal takes a lot of time. On the other hand, we submissions. Incomplete application is better than late submission: send the and complete the missing ones (such as translation and certification) later. Don't give up only because you don't have some docs ready or because you have missed the deadline; do fight for your future and use your chance.



Admission process

The Admission Process begins with the online registration of the applicant. Subsequently, the academic and accreditation files must be sent, and finally the attendance to an interview with the Admission Commission is required, which includes the evaluation of academic and psychometric aspects. The complete process is described in the following steps:

[Please send things by the deadline, even if incomplete or incorrect. In this case, is better to send incomplete or incorrect application / file in time, than to send it perfect when it is too late. Incomplete or incorrect application can be completed or corrected later.]

Step 1: Fill in an admission application.

[In this next form, there is a question on how you knew about the program. Please indicate my name there: Prof. Alexander Gelbukh.]

[See my translation and explanation of the steps (though it might be somewhat outdated) before you fill in the next form.]

The applicant must fill in their application to start the admission process, through the web application available in the following link: http://www.cic.ipn.mx/registroA20/.

Once your application is registered, the applicant will obtain a registration identification key (regID), which will be used later both for sending the files and for obtaining feedback on the progress of the ongoing admission process.

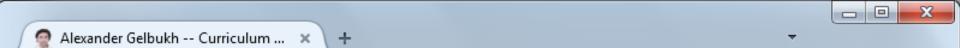
To track the progress of the application, the applicant must access the following link: http://www.cic.ipn.mx/seguimientoA20MCC/. [There you will see whether your application is received, which of the required documents were accepted, and which documents were missing or were not accepted and thus need urgent correction. Ask your advisor for interpretation of the information there.]

Step 2: Send the Academic File.

The applicant must send the Academic File in the form of a PDF file, which must contain the compilation of the digitized versions of the following documents of the applicant:

a. Undergraduate certificate where the GPA and the finishing of the program are specified. [This is your BSc transcript.]







Journals Indexed by ISI JCR

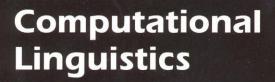
Nota: ISI mantiene dos listas: JCR and Social Sciences JCR (JCR SS).

www.gelbukh.com/CV/CV-English.htm#Publications

Nota: Véase una publicación JCR más en las reseñas. Véase tres publicaciones más que salieron en revistas que antes fueron indexadas pero no en el año en el cual salió la publicación.

- Alisa Zhila, Alexander Gelbukh. Open Information Extraction from Real Internet Texts in Spanish Using Constraints over Part-Of-Speech Sequences: Problems of the Method, Their Causes, and Ways for Improvement. "Revista Signos. Estudios de Lingüística", ISSN 0718-0934, Vol. 49, No. 90, March, 2016, pp. 119-142, doi: 10.4067/S0718-09342016000100006.
 - SSCI: JCR SS impact factor 2013 (when accepted): 0.182.
- Soujanya Poria, Erik Cambria, Alexander Gelbukh, Federica Bisio, Amir Hussain. Sentiment Data Flow Analysis by Means of Dynamic Linguistic Patterns. IEEE Computational Intelligence Magazine, ISSN 1556-603X, Vol. 10, No. 4, 2015, pp. 26–36, doi: 10.1109/MCI.2015.2471215.
 - SSCI: JCR SS impact factor 2014 (when accepted): 2.571.
- Basant Agarwal, Soujanya Poria, Namita Mittal, Alexander Gelbukh, Amir Hussain. Concept-Level Sentiment Analysis with Dependency-Based Semantic Parsing: A Novel Approach. Cognitive Computation, ISSN 1866-9956, Vol. 7, No. 4, 2015, 487–499, doi: 10.1007/s12559-014-9316-6.

SCIE: JCR impact factor 2013: 1.100.



Models, Resources, Applications

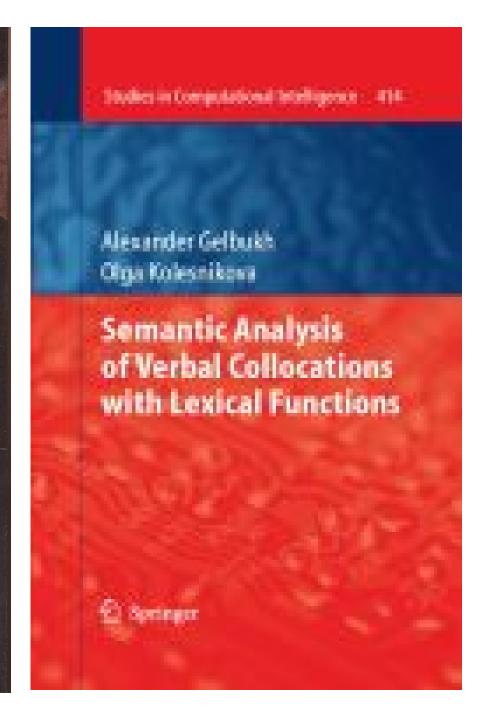
lgor Bolshakov Alexander Gelbukh













Thank you!
nlp.cic.ipn.mx