

Resume

Name : Dr. Lalit Goyal
Gender : Male
Date of Birth : 31-01-1977
Marital Status : Married
Official Address : Associate Professor,
Department of Computer Science,
DAV College, Jalandhar, Punjab
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Areas of Interest: Natural Language Processing, Data Structures, Digital Image Processing

Educational Qualification:

1. Ph. D. (Computer Science) from Punjabi University Patiala under the esteemed supervision of Dr. Vishal Goyal, Associate Professor, Department of Computer Science, Punjabi University, Patiala.

Title of Thesis : **Translator for English Text to Indian Sign Language Synthetic Animations**

2. M.Tech.(Comp. Science and Engineering) with 71% from Punjabi University, Patiala, Punjab.
3. B.Tech. with 69% marks from Punjab Agricultural University, Ludhiana, Punjab.
4. 10+2 (N.M.) with 62% marks from Govt. Rajindra College, Bathinda.
5. 10th with 77% marks from M.S.D. Sr. Secondary Public School, Bathinda.

Work Experience (Teaching/Research/Industry): (Total : 17+ years app.)

Teaching Experience:

Working as Associate Professor at Department of Computer Science, DAV College, Jalandhar since 25th June 2001.

Administration Experience:

- Acting as the Coordinator for UGC Sponsored Add-on Course in Data Care Management.
- Acting as Deputy Dean(Secrecy) in the college Examination Cell involved in organizing the duties like setting question papers, evaluation of answer sheets and preparation of results.
- Acted as Program Officer of NSS Unit at DAV College, Jalandhar for the tenure of 3 years.
- Acted as the Deputy Dean of Career Counseling and Guidance Cell involved in advising and guidance of career opportunities for the students.
- Active member of college section formation committee.
- Active member of college time table committee.

Memberships

Lifetime member of Indian Science Congress Association under the Department of Science and Technology, Ministry of Science and Technology, Government of India. (Registration No. A17020)

Nominated as outside expert on the Board of Under Graduate Studies in Computer Science for the term 01-01-2014 to 31.12.2015.

Research Projects Undertaken

Minor Research Project allocated by University Grant Commission(UGC) with **Project ID ROMRP-NRCB-COMP-2015-16-16101**, Project Title as **Automation of translation of Simple one verb English Sentences to Indian Sign Language (ISL) Synthetic Animations.**

Patents / Copyrights

1. Software Copyright for **Translator for English Text to ISL Synthetic Animations for Simple Sentences** in April 2018 with Registration No. SW-10501/2018
2. Software Copyright for Translator for **Generalized and Simplified Tool to Create HamNoSys Notation for Producing the Signs using Synthetic Animations for Hearing Impaired People** in November 2018 with Registration No. SW/11865/2018

Workshops/Trainings Attended:

1. One week Faculty Development Program on **Data Structures and Algorithms** conducted by Jaypee University of Engineering and Technology, Guna(MP) and Electronics and ICT Academy PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur(MP) from 10-07-2018 to 14-07-2018.
2. One week Faculty Development Course on **Java Fundamentals and Java Programming** conducted by Department of computer Science and Engineering in association with Oracle Academy at NITTTR, Chandigarh from 22-05-2017 to 26-05-2017.
3. One week Short Term course on **Recent Awareness in Image and Natural Language Processing (RAINLP-2016)** conducted by Department of computer Science and Engineering at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar(Punjab) from 30-05-2016 to 03-06-2016.
4. One day national workshop on **IPR Awareness and Plagiarism Detection Tool for Indian Languages** organized by Department of computer Science, Punjabi University, Patiala(Punjab) in collaboration with IPR Division, DeitY, MoC& IT, GoI, New Delhi on 13-05-2016.
5. One week Short Term course on **Android Programming** conducted by Computer Science& Engineering Department at NITTTR, Chandigarh from 15-02-2016 to 19-02-2016.
6. One week Short Term course on **PHP and MySQL** conducted by Computer Science Department at NITTTR, Chandigarh from 31-08-2015 to 04-09-2015.
7. One week Short Term course on **Technical Teacher's Role, Self Esteem, Motivation, and Professionalism Development through ICT** conducted by Media and Continuing Education Centre at NITTTR, Chandigarh from 08-06-2015 to 12-06-2015.
8. Two days workshop on **Statistical Machine Translation: Moses Toolkit** conducted at Chitkara University from 30-12-2014 to 31-12-2014.
9. Two weeks **Faculty Development Program** organized by Entrepreneurship Development Centre, Guru Nanak Dev University College, Jalandhar under the aegis of Entrepreneurship Development Institute of India, Ahmedabad from 18-12-2014 to 29-12-2014.
10. One week Short Term course on **ASP.NET** conducted by Computer Science Department at NITTTR, Chandigarh from 17-11-2014 to 21-11-2014.
11. One week Short Term course on **LATEX Programming** conducted by Computer Science Department at NITTTR, Chandigarh from 21-07-2014 to 25-07-2014.

12. Two weeks **Faculty Development Program** organized by Entrepreneurship Development Centre, Guru Nanak Dev University College, Jalandhar under the aegis of Entrepreneurship Development Institute of India, Ahmedabad from 27-12-2013 to 07-01-2014.
13. Two days TEQIP-II sponsored National Workshop on **Natural Language Processing** at Thapar University, Patiala from 06-12-2013 to 07-12-2013.
14. One week UGC Sponsored National Workshop on **Multilingual Technologies** organized by Department of Computer Science, Punjabi University, Patiala from 11-11-2013 to 17-11-2013.
15. A 3-days National Workshop on **Indian Languages Corpora Initiative(Phase-II)** funded by DeitY, Govt. of India, New Delhi held at Punjabi University, Patiala from April 18, 2013 to April 20, 2013.
16. One week UGC Sponsored National Workshop on **Digital Image Processing using Matlab** at Punjabi University, Patiala from 29-11-2012 to 05-12-2012.
17. One day technical workshop on **Emerging WLAN Trends and D-Link Mobility Solutions** organized by Punjabi University, Patiala on 05-11-2012.

Seminars Attended:

1. Two days UGC Sponsored National Seminar on **Linguistics and Language Technology** in association with **Linguistic Data Consortium for Indian Languages CHIL Mysore**, at Guru Nanak Dev University Regional Campus, Jalandhar from 06-03-2013 to 07-03-2013.
2. One Day UGC Sponsored National Seminar on **Privacy and Security Issues on Internet and E-Commerce** organized by Department of computer Science and IT, D.R.V.D.A.V. Centenary College, Phillaur, Jalandhar on 27-05-2012.

Papers in Journals/Conferences/Seminars:

1. Lalit Goyal, Vishal Goyal, "Tutorial for Deaf - Teaching Hindi Alphabet using Synthetic Animations", in Gyancity Journal of Engineering and Technology (GJET) Vol 5, No. 1, (January 2019): 26-33.
2. Lalit Goyal, Vishal Goyal, "Tutorial for Deaf - Teaching Hindi Alphabet using Synthetic Animations", in 4th International Conference on Recent Trends in Computer Science and Electronics (RTCSE-2019) held on 03-06 January, 2019 organized at University of Hawaii, Manoa Campus, USA.
3. Lalit Goyal, "Tutorial for Deaf-Teaching Hindi Alphabet using Synthetic Animations" in National Conference on Recent Trends and Innovations in Pure and Applied

Mathematics(RTIPAM-2018) held on February 23-24, 2018 organized by PG Department of Mathematics, DAV College, Jalandhar.

4. Lalit Goyal, Vishal Goyal, "Tutorial for Deaf – Teaching Punjabi Alphabet using Synthetic Animations", in 14th International Conference on Natural Language Processing (ICON-2017) held on December 18-21, 2017 organized by Jadavput University with LTRC, IIIT Hyderabad, Kolkata, India.
5. Lalit Goyal, Vishal Goyal, "NLP Software Contest titled Translator for English Text to ISL Synthetic Animations for Simple Sentences" in 15th International Conference on Natural Language Processing (**ICON 2018**) held on 15-18 December, 2018 organized by Punjabi University, Patiala on 15-18 December, 2018. **Awarded with 2nd Position in software contest.**
6. Lalit Goyal, Vishal Goyal, "NLP Software Contest titled Automatic HamNoSys Code Generation System for Developing the Bilingual Dictionary" in 15th International Conference on Natural Language Processing (**ICON 2018**) held on 15-18 December, 2018 organized by Punjabi University, Patiala on 15-18 December, 2018.
7. Lalit Goyal, "Tutorial for Deaf-Teaching Hindi Alphabet using Synthetic Animations" in National Conference on Recent Trends and Innovations in Pure and Applied Mathematics (RTIPAM-2018) held on February 23-24, 2018 organized by PG Department of Mathematics, DAV College, Jalandhar.
8. Lalit Goyal, Vishal Goyal, "Tutorial for Deaf – Teaching Punjabi Alphabet using Synthetic Animations", in 14th International Conference on Natural Language Processing (ICON-2017) held on December 18-21, 2017 organized by Jadavput University with LTRC, IIIT Hyderabad, Kolkata, India.
9. Lalit Goyal, Vishal Goyal, "Grammar Rules for Automatic Conversion of English to Indian Sign Language" in 104th Indian Science Congress held on January 3-7, 2017 organized by SV University, Tirupati, Andhra Pradesh, India.
10. Lalit Goyal, Vishal Goyal, "Automatic Translation of English Text to Indian Sign Language Synthetic Animations", in 13th International Conference on Natural Language Processing (ICON-2016) held on December 17-20, 2016 organized by IIT(BHU), Varanasi, India.
11. Lalit Goyal, Vishal Goyal. "Text to Sign Language Translation System: A Review of Literature." International Journal of Synthetic Emotions (IJSE) 7.2 (2016): 62-77.
12. Lalit Goyal, Vishal Goyal, "Text to Sign Language-A Review of Literature", in 2-days National Conference on Recent Trends and Technologies in Data Science & Artificial Intelligence (NCTDA-2016) held on August 26-27, 2016 organized by Department of

Computer Science & IT, Bhaderwah Campus, University of Jammu. **Awarded with Best Paper Award**

13. Lalit Goyal, Vishal Goyal, "Development of Indian Sign Language Dictionary using Synthetic Animations", Indian Journal of Science and Technology, Volume-9, Issue-32, August, 2016.
14. Lalit Goyal, "Indian IT Companies-Contribution in Corporate Social Responsibilities", UGC Sponsored National Seminar on Corporate Regulatory Reforms-Perspective, Issues, Challenges, under New Company Law at DAV College, Jalandhar on 21-03-2015.
15. Chitra Garg, Lalit Goyal, "Extraction and Stemming of Verbs", in Third Regional International Conference on Natural Language Processing , organized by Department of Computer Science, Punjabi University, Patiala to be held on September 18, 2015 to September 19, 2015.
16. Chitra Garg, Lalit Goyal, "Automatic Extraction of Idiom, Proverb and its Variations from Text using Statistical Approach", International Journal of Engineering Sciences, Volume-10, December, 2014.
17. Lalit Goyal, "n-Gram Character Analysis of English Text on Domain Specific Corpus", International Journal of Engineering Sciences, Volume-9, December, 2013.
18. Lalit Goyal, "Quantitative Analysis of English Corpus in Tourism and Health Domain", International Journal of Engineering Sciences, Volume-8, January, 2013.
19. Lalit Goyal, "Comparative Analysis of Printed Hindi and Punjabi Text based on Statistical Parameters" In the Proceedings International Conference for Information Systems for Indian Languages, Organized by Department of Computer Science, Punjabi University, Patiala, March 9-11, 2011, pp. 180-185, Springer CCIS 139, Germany (2011)
20. Harcharan Jit Singh, Pawan Kumar, Lalit Goyal, "Security Issues for an E-Commerce Site for Safe and Reliable Services", National Seminar on E-business- Converting Traditional Business into E-Business, organized by DAV College, Jalandhar on January 17, 18, 2006.
21. Lalit Goyal, "Quantifying the financial impact of its security violation" National Seminar on E-business- Converting Traditional Business into E-Business, organized by DAV College, Jalandhar on January 17, 18, 2006.
22. Lalit Goyal, "E Security for Banking Sector" National Seminar on E-business- Converting Traditional Business into E-Business, organized by DAV College, Jalandhar on January 17, 18, 2006.
23. R. Sehgal, Varinder Kumar Mittal, Lalit Goyal, "Technology: Ethics and human values", 20th International Conference of AIAER in India on GATS & EDUCATION (EDUCON - 2005), Punjabi University, Patiala, Punjab, 2005.

24. Pawan Kumar, Lalit Goyal, Varinder Kumar, "IT in Rural Areas- A Way to Develop", International conference on Challenges and opportunities in IT industry, 2005.
25. Lalit Goyal, Pawan Kumar, "EduSat-A teacher in the Sky" in National seminar E-Contents on EduSat held at DAV College, Jalandhar in February 2005.
26. Lalit Goyal, "Statistical Analysis of Printed Hindi Text and its comparison with Printed Punjabi Text", National Conference on Trends of Computational Techniques in Engineering-2004

Invited Lectures at National or International Conference/Seminar/TV Programs

1. Guest talk in DD-Punjabi's Show "Gallan Te Geet" on the topic "Cyber Dost" on January 22, 2019 at TV Center, Jalandhar.
2. Lecture Delivered at National Seminar on Linguistics and Language Technology organized by Department of Punjabi, Guru Nanak Dev University Regional Campus, Jalandhar and Linguistics Data Consortium for Indian Languages, CIIL Mysore on March 6-7, 2013 at Regional Campus, Jalandhar.
3. Lecture delivered on Internet Technologies at Workshop on Computer and Internet Awareness organized by Post Graduate Department of Computer Science, DAV College Jalandhar on June 20-27, 2014.
4. Lecture Delivered on Translation Technology for Deaf and Hard of Hearing people at National Workshop on Research Trends in Computational Techniques organized by Post Graduate Department of Computer Science, DAV College Jalandhar on April 16-22, 2015

Books Published:

1. "Simplified Approach to Data Structures" published by Shroff Publishers and Distributors Pvt. Ltd. with ISBN: 9789351105312. URL-
<http://www.shroffpublishers.com/detail.aspx?title=6163>
2. "Numerical Analysis and Statistical Techniques" published by ABS Publications with ISBN: 978-81-7072-119-2
3. "Simplified Approach to Numerical methods" published by Easy Steps Publishing Co. with ISBN: 978-81-9212-071-3 URL-<http://pothi.com/pothi/book/lalit-goyal-simplified-approach-numerical-methods>
4. "Automatic Extraction of Idioms and Proverbs and Stemming of Verbs" published by "Lambert Academic Publishing with ISBN-13: 978-3-659-74382-5, ISBN-10: 3659743828. URL-<https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-659-74382-5/automatic-extraction-of-idioms-proverbs-and-stemming-of-verbs>
5. "Statistical Analysis of Printed Hindi Text and its Comparison with Printed Punjabi Text" published by Easy Steps Publishing Co. with ISBN : 9788192120706 URL-

<http://pothi.com/pothi/book/lalit-goyal-statistical-analysis-printed-hindi-text-and-its-comparison-printed-punjabi-text>

E-Content Development

Developed Educational Video Lectures on Linked List-I, Linked List-II, Linked List-IV, Tree, Binary Tree for UGC 24-Hour Higher Educational Video Channel - DD Vyas. These are also the part of MHRD's NMEICT e-Content Development Project. Videos were recorded in EMMRC, Punjabi University, Patiala.

Achievements

Awarded with Second Position in NLP Software Contest held in 15th International Conference on Natural Language Processing (**ICON 2018**) at Punjabi University, Patiala on 15-18 December, 2018.

Won Consolation Prize in INNOTECH-2017 organized by Pushpa Gujral Science City in collaboration with Punjab Technical University on 18-03-2017 for displaying the Project Model(Software) on Automation of Indian Sign Language.

Awarded with Best Paper Award for research paper “Text to Sign Language-A Review of Literature”, in 2-days National Conference on Recent Trends and Technologies in Data Science & Artificial Intelligence (NCTDA-2016) held on August 26-27, 2016 organized by Department of Computer Science & IT, Bhaderwah Campus, University of Jammu.