# CURRICULUM VITAE

## María del Pilar Angeles

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SNI No. 48291 Nivel C, RCEA: 07-20182-2010, PRIDE Nivel C
Sybase Certified Adaptive Server Enterprise 15.0 Administrator Associate
IBM Certified Academic Associate DB2 9 Database and Application Fundamentals

## OBJECTIVE

**Lead and support the Information Technology area** in an organization where my 20 years of progressive experience in the industry, academia and the doctoral degree can add value to the company.

## SKILLS AND ABILITIES

- Learning and Teaching extensive experience and abilities
- High level of analysis and tracking technical problems.
- Well-organized and highly efficient working in a multi-tasking dynamic environment.
- Ability for planning, managing, and supervising technical people.
- Knowledgeable and experienced.
- Fully bilingual in Spanish and English.

## WORKING EXPERIENCE IN INDUSTRY

- **Sybase de México S. de R.L. de C.V.** (2007-2010), Blvd. M. Avila Camacho 138 piso 6.

Position: Independent Instructor

Main responsibilities: Deliver the following Advanced and Basic Sybase Technical courses:

- Fast Track to Sybase Adaptive Server Enterprise
- System and Database Administration: Adaptive Server Enterprise
- Performance and Tuning: Configuring Adaptive Server Enterprise
- Advanced Administration and Troubleshooting for Adaptive Server Enterprise
- Troubleshooting Adaptive Server Data Structures Complex Problem Solving Using dbcc. I took the Fast Track to Replication Server Administration at Sybase Mexico facilities.

- **Fondo de Información y Documentación para la Industria (Infotec)**

Av. San Fernando 37, Col. Toriello Guerra, Tlalpan, CP 14050, México D.F.

Position: Database Administrator and Coordinator of web applications.

Main reponsabilities: ITIL implementation within the help desk, Monitoring, performance and tunning of Oracle and Sybase databases.


- **e-Strategy S.A. de C.V.** Insurgentes Sur 673. Mexico.

Position: Technical Support Engineer

Main responsibilities: Technical Support for MicroStrategy products on Data warehouse area, this position was developed on teleworking basis.

- During 1998-2000 I worked for UNAM whilst I achieved the Master degree.
- **Sybase de México S.A. de C.V.** (1996 - 1998), Presidente Masaryk 214 Col. Polanco. México

Position: Technical Support Engineer

Main responsibilities: Installation of Sybase products on mainframe, Unix, Windows NT and AS/400 platforms.

In addition, I provided customer support and I delivered seminars and regular training on any Sybase product to customers.

- **Software A.G. de México** (1993 1996), Insurgentes Sur 1605. México

Position: Senior Consultant, Technical Support Coordinator

Main responsibilities: Managing technical people, Installation of SAG products, apply corrective and preventive maintenance on mainframe platform.

Teaching courses: Adabas Internals, Administration, Performance and Tuning.

Software presentations to potential customers. Technical Support to the Sales area. Management of Technical Support personnel.

- **Nissan Mexicana S.A. de C.V**. (1991 – 1993), Insurgentes Sur 1958. México

Position: Database administrator (DBA)

Main activities: Managing technical people, administration of all the corporative databases in Mexico. The products managed were Adabas, Natural Administration under CICS and MVS Operating System

- **Oracle de México S.A. de C.V**. (1991), Ejercito Nacional 579 1st. Floor. Mexico.

I worked as freelance instructor in the following Oracle products (SQL * Plus, SQL * Forms) and Relational Database Design to several customers.

- **Casa de Bolsa Probursa S.A. de C. V.** (1989 -1990),Adolfo López Mateos 2448. Mexico.

Mi position in this company was as Senior Analyst.

Participation in the development of the system of economic studies.

I worked as Oracle database administrator and VMS Operating system technical support.

## WORKING EXPERIENCE IN ACADEMIA

- **Universidad Nacional Autónoma de México, (UNAM)** Full time Professor and Researcher (2007-)
- **Universidad la Salle del Pedregal, (U.del.P.)** Professor (2000- 2003)
- **Universidad del Valle de México, (UVM)** Professor (2000- 2003)
- **Heriot Watt University (Edinburgh, UK)** Professor(2003-2007)

I have been training professionals at the industry since 1991 in the Databases area, and I have been reinforced the computer science area since 2000 by teaching and learning activities in different Universities. As lecturer, I have been in charge of design the learning and teaching materials for the following modules: Artificial Intelligence, Quality Control of Software Engineering, Relational Database Modeling and Physical Design, Object Oriented Databases, "C" Programming Language, IT Fundamentals.

Using software for tutorials and lecturing like LISP, Prolog, ExSys, Sybase Adaptive Server, Microsoft SQL Server, Oracle, Oracle Designer MicroStrategy Agent, Architect, ObjectStore and Sybase Replication Server tools.

I have used Computer Aided Assessment tools such as Question Mark to design assessment materials, and Microsoft Office tools to automate marking and feedback process.

**Associations:**

Founder Member of the Mexican Association for the Software Engineering Quality (AMCIS).

Member of the Assaociation for Information Systems (AIS)

## RECOGNITIONS AND AWARDS

- IEEE Advancing Technology for humanity, Sección México, 22 Reunión Internacional de Otoño de Comunicaciones, Computación, Electronica, Automatización, Robótica y Exposición Industrial, La conjunción de las Tecnologías Digitales en las Redes Inteligentes, por la ponencia: *"Propuesta de Diplomado Afinación y Rendimiento de BD en la FI, UNAM"*
- Member of the Mexico National Researchers System (SNI, Sistema Nacional de Investigadores) Level C, number 48291.
- Registered Member of Mexican National Science and Technology Council (CONACYT) Reputable Evaluators (RCEA, Registro CONACYT de Evaluadores Acreditados), number 07-20182-2010.
- Best Paper Award to *"Assessing Quality of Derived Non Atomic Data by considering conflict resolution function"*.
- Master's degree distinction

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## Recent Scientific Publications:

- P. Angeles, V. Gonzalez-Castro*,"V+H: Hybrid architecture for DSS and OLTP"*, International Journal of Information Management, Submission Reference number IJIM-D-12-00379, Editor Philip Hills, ISSN: 0268-4012, probably published on Vol. 33 (2013) ISSUE 3.

- P. Angeles, *"Subjective Assessment of Data Quality considering their Interdependencies and Relevance according to the Type of Information Systems"*, International Journal on Advances in Software, v 5 n 3&4 2012, ISSN: 1942-2628, December, 2012.

- P. Angeles, J. Cordoba-Luna, *"Enhancing Distributed Data Mining performance by multi-agent systems"*, The Fifth International Conference on Advances in Databases, Knowledge, and Data Applications, DBKDA 2013,January 27 - February 1, 2013 - Seville, Spain

- P. Angeles, V. Gonzalez, *"V+H: Architecture to Manage DSS and OLTP Workloads"*, Proceedings of the Seventh Midwest Association for Information Systems Conference, Green Bay, Wisconsin, May 18-19, 2012. Paper 13, http://aisel.aisnet.org/mwais2012/13

-P. Angeles F. Garcia-Ugalde, *Relevance of Quality Criteria According to the Type of Information Systems*, para el "The Fourth International Conference on Advances in Databases, Knowledge, and Data Applications", en DBKDA 2012, Reunion Island, ISBN: 978-1-61208-185-4,pp.175-181.

-P. Angeles, L.M. MacKinnon, *Managing Data Quality of integrated data with Known Provenance,* "International Journal of Information Quality", ISSN (Online): 1751-0465, ISSN (Print): 1751-0457, Vol.2 No. 3, 2011.

-P. Angeles F. Garcia-Ugalde, D. Acudia-Aguilera, *The Use of Data Cleansing in Mobile Devices*, para el "The Third International Conference on Advances in Databases, Knowledge, and Data Applications", DBKDA 2011, ,St.Maarten,The Netherlands Antilles, ISBN:978-1-61208-002-4,pp.16-22

--P. Angeles F. Garcia-Ugalde, D. *Assessing data quality of integrated data by quality aggregation of its ancestors* en la revista "Computación y Sistemas" del Centro de Investigación en Computación del Instituto Politécnico Nacional (IPN), Volumen 13 No. 4 correspondiente al trimestre Abril-Junio de 2010. CONACYT, ISSN 1405-5546.

-P. Angeles, F. Garcia-Ugalde, *A Data Quality Practical Approach*, para el "International Journal On Advances in Software", ISSN: 1942-2628, Vol. 2, No. 3, 2009., pp. 259 to 274, December 1, 2009.

-V. Gonzalez-Castro, L.M. MacKinnon, and P Angeles, *An Alternative Data Warehouse Reference Architectural Configuration*, British National Conference on Databases BNCOD 2009, Birmingham UK, 2009, Springer-Verlag Berlin, Heidelberg ©2009,ISBN: 978-3-642-02842-7 doi>10.1007/978-3-642-02843-4_6

-V. Gonzalez-Castro, L.M. MacKinnon, and P Angeles, *The Use of the Binary-Relational Model in Industry, A Practical Approach* , British National Conference on Databases , BNCOD 2009, Birmingham UK, 2009, Springer-Verlag Berlin, Heidelberg ©2009 ,ISBN: 978-3-642-02842-7 doi>10.1007/978-3-642-02843-4_9

-P. Angeles F. Garcia-Ugalde, *Assessing Quality of Derived Non Atomic Data by considering conflict resolution function*, International Conference on Advances in Databases, Cancun, Mexico, 2009, IEEE Computer Society Washington, DC, USA ©2009, ISBN: 978-0-7695-3550-0 doi>10.1109/DBKDA.2009.10.

-P. Angeles, F. Garcia-Ugalde, *A Data Quality Practical Approach*, para el "International Journal On Advances in Software" Vol. 2, No. 3, 2009.

- P. Angeles F. Garcia-Ugalde, *User stereotypes for the Analysis of Data Quality according to the type of Information Systems en* "IASK - International Association for the Scientific Knowledge, E-Activity and Leading Technologies pp. 207-212, ISBN 978-989-95806-3-3, Madrid Spain, 2008.

- P. Angeles F. Garcia-Ugalde, *Assessing Data Quality by considering conflict resolution function* en "IASK - International Association for the Scientific Knowledge, E-Activity and Leading Technologies pp. 59-64 ISBN 978-989-95806-3-3, Madrid Spain, 2008.

- P. Angeles, Tracking Data Provenance with a Shared Metadata, "Postgraduate Research Conference in Electronics, Photonics, Communications and Networks, and Computing Science" (PREP), Lancaster, England, 2005.

- P. Angeles, Quality Measurement and Assessment Models including Data Provenance to grade Data sources, "International Conference on computer Science & information Systems", "The Athens Institute for Education and Research". Grecia, Atenas, 2005.

- P. Angeles, Solving Data Inconsistencies and Data Integration with a Data Quality Manager, "British National Conference on Databases". BNCOD Edinburgh, 2004.

- P. Angeles, Detection and Resolution of Data Inconsistencies, and Data Integration, Technical Report Heriot Watt University, Edinburgh, 2004.

- P. Angeles, Detection and Resolution of Data Inconsistencies, and Data Integration using Data Quality Criteria QUATIC en el Instituto Nacional de Calidad, Porto, Portugal , ISBN 972-763-069-3, 2004.

## EDUCATION

**PosDoctoral research**  (Information Integration, Heterogeneous Databases and Information Quality), Universidad Nacional Autónoma de México, Facultad de Ingeniería, División de Estudios de Postgrado, 2008-2009.

**Philosophy Doctor in Computer Science** (Databases)**,** Heriot Watt University Edinburgh campus, 2003-2007
Within the Databases group, my research was focused on Data Quality, and to prove that Data Provenance allows establishing a better criterion and can help to the assessment of data quality of the participating data sources in a federation in order to make informed business decisions.
I have proposed a Data Quality Manager that has been tested with Data Warehouse and Transactional environments through TPC-H and TPC-C data sets.

**Postgraduate Certificate in Academic Practice,** Heriot Watt University, 2004-2006.
I.  *Teaching and Learning in Context*, concern with the relation between University, lecturers and students through the policies, mission, teaching and learning methods and abilities to achieve a common objective.
II. *Enhancing Research and Scholarship,* oriented to the development of research and writing techniques, and personal abilities in order to get scientific publications accepted
III. Choosing Teaching Approaches focused on which teaching approaches are suitable under specific conditions and abilities.
IV. *Assessment for learning* this module allows improving the design of assessment materials and automates as much as possible the marking and feedback tasks.
V *Designing Learning Environments*, oriented to distance-learning, virtual learning, e-learning.

**Master in Computer Science** Software Engineering and Databases area, Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas (IIMAS, UNAM), 1998-2000.
Thesis: Body of Knowledge and Evaluation of ISO 15504 Assessors System. (SPICE) with distinction.
**Diploma in Telematic Systems**, Instituto Tecnológico Autónomo de México (ITAM), 1994 –1995
**Diploma in Expert Systems**, Instituto Tecnológico Autónomo de México (ITAM), 1993 –1994

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**Computer Engineer,** Facultad de Ingeniería (UNAM), 1987-1991.

## Foreign Languages

(Before going to UK for 4 years)

| | |
|---|---|
| Test of English as Foreign Language | 560 puntos |
| International English Language Testing System | 6.5 puntos |
| Italian | Intermediate level |

## Training (courses I have taken)

| | |
|---|---|
| Lenguaje de Programación C | Facultad de Ingeniería |
| Virus Informaticos: | Departamento de Educación Continua (UNAM) |
| Sistema Operativo UNIX | Centro de Cálculo de la Facultad de Ingeniería (UNAM) |
| C Advanced Programming Language | Centro de Cálculo de la Facultad de Ingeniería (UNAM) |
| VMS Operating System | Centro de Cálculo de la Facultad de Ingeniería (UNAM) |
| SQL * Plus & SQL * Report | Centro de Cálculo de la Facultad de Ingeniería (UNAM) |
| SQL * Forms y SQL * Menu | Centro de Cálculo de la Facultad de Ingeniería (UNAM) |
| Database Administration V6 | Oracle México |
| Microcomputación | Redes y Capacitación Ejecutiva. |
| DOS Nivel Intermedio | Redes y Capacitación Ejecutiva. |
| Arquitectura de PC. | Redes y Capacitación Ejecutiva. |
| Windows, Arquitectura y Operación | Redes y Capacitación Ejecutiva. |
| Word for Windows | Redes y Capacitación Ejecutiva. |
| Powerpoint for Windows | Redes y Capacitación Ejecutiva. |
| Pagemaker for Windows | Redes y Capacitación Ejecutiva. |
| Harvard Graphics | Redes y Capacitación Ejecutiva. |
| Diseño de paginas web en internet | Facultad de Ingeniería |
| Adabas 5 DBA Skills | Software AG de México S.A. de C. V. |
| Predict 3 Application Usage | Software AG de México S. A. de C. V. |
| Adabas 5.2 Capabilities | Software AG de México S. A. de C. V. |
| Natural 2 Systems Adm. | Software AG de México S. A. de C. V. |
| Adabas 5 Performance & Tuning | Software AG de México S. A. de C. V. |
| Adabas 5 Internals | Software AG de México S. A. de C. V. |
| Natural 2 Intermediate Programming | Software AG de México S. A. de C. V. |
| Adabas Direct Calls | Software AG de México S. A. de C. V. |
| S/390 Parallel Sysplex Planning and Implementation for MVS/ESA | I.B.M and George Washington University, Virginia |
| Application Analysis and Design | Software AG de México S. A. de C. V. |
| Adabas for Parallel Sysplex | Software A. G. of North America |
| Sybase SQL Server Administration | Sybase de México |
| Power J | Sybase de México |
| DirectConnect for DB2 | Sybase of North America |
| Sybase IQ Administration | Sybase of North America |
| Powering UP System XI | Sybase de México |
| OmniConnect Administration | Sybase of North America |
| Introducction to Datawarehousing | e-Strategy |
| Managing your environment | e-Strategy |
| Troubleshooting Adaptive Server | Sybase de México S.A. de R.L. |
| Valores en la Educación | Centro de Docencia de la Facultad de Ingeniería |
| Gestión de Proyectos Institucionales | Centro de Docencia de la Facultad de Ingeniería |
| Inteligencia Emocional | Centro de Docencia de la Facultad de Ingeniería |
| Programación Neurolingüística en la Docencia | Centro de Docencia de la Facultad de Ingeniería |
| Herramientas Web para la elaboración de materiales en Internet (flash, dreamweaver y php básico) | Centro de Docencia de la Facultad de Ingeniería |

Moodle para Profesores          Programa de Tecnología en Cómputo, Facultad de Ingeniería

**Professional Certifications**

IBM DB2 9.7 Academic Workshop IBM – **PROMETRIC-IBM**

Sybase Certified Adaptive Server Enterprise 15.0 Administrator **PROMETRIC-SAP** SR2837468

## Training (Courses delivered)

| | |
|---|---|
| Adabas 5 DBA Skills | Software AG de México S.A. de C. V. |
| Predict 3 Application Usage | Software AG de México S. A. de C. V. |
| Adabas 5.2 Capabilities | Software AG de México S. A. de C. V. |
| Natural 2 Systems Adm. | Software AG de México S. A. de C. V. |
| Adabas 5 Performance & Tuning | Software AG de México S. A. de C. V. |
| Adabas 5 Internals | Software AG de México S. A. de C. V. |
| Fast Track to Adaptive Server | SAP AG de México S.A. de R.L. |
| Fast Track to Adaptive Server | SAP AG de México S.A. de R.L. |
| System and DB Administration: ASE | SAP AG de México S.A. de R.L. |
| Performance and Tuning: Configuring ASE | SAP AG de México S.A. de R.L. |
| Advanced Administration and Troubleshooting for ASE | SAP AG de México S.A. de R.L. |
| MDA Tables | SAP AG de México S.A. de R.L. |
| Troubleshooting DataStructurs | SAP AG de México S.A. de R.L |
| Databases | Facultad de Ingeniería, UNAM |
| Spacial Databases | Facultad de Ingeniería, UNAM |
| Distributed Databases | Facultad de Ingeniería, UNAM |
| Selected Topics of Databases | Facultad de Ingeniería, UNAM |
| Introduction to Information Systems and RDBMS | Facultad de Ingeniería, UNAM |
| Database Administration | Facultad de Ingeniería, UNAM |
| Performance and Tuning | Facultad de Ingeniería, UNAM |
| Advanced Topics on Databases | Facultad de Ingeniería, UNAM |

**REFERENCES**

Gustavo Lopez, Technical Manager, SAP AG México, E-mail  gustavo.lopez@sap.com  México city, México. Tel. 52 55 5093 8551

Dr. Lachlan MacKinnon Professor at the Information Systems and Digital Media. University of Greenwich. email L.Mackinnon@gre.ac.uk  Tel +44 (0)20 8331-8559. London, UK.