Dr. Amir Ibrahim

Current Title: Professor/Regents Professor, Small Grains Breeder and Geneticist

Appointment: 30% Teaching, 70% Research

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Education:

Ph.D., Plant Breeding and Genetics, Colorado State University, 1998

M.S., Crop Production, American University of Beirut, Lebanon, 1994

B.S. (HONOR), Crop Science, University of Gezira, Sudan, 1990

Teaching Focus: SCSC 660 Experimental Designs in Agriculture and SCSC 402 Crop Stress Management.

Research & Extension Focus: Resistance to pests and diseases, heat and drought tolerance, end-use quality, synthetic wheat, molecular mapping and breeding, and hybrid wheat.

Grants and Contracts: $59,483,966 with $7,101,218 to Ibrahim from federal, private sector, commodity groups, and state agencies

Cultivar Releases: Dr. Ibrahim released and co-released 30 wheat and 3 oat cultivars.

Referred Journal Articles (up to October 2022):

1. Abdelghafor, R F.., A. Mustafa, A.M.H. Ibrahim, and P. Krishnan. 2013. Effect of Sorghum Flour Addition on Chemical and Rheological properties of Hard White Winter Wheat. Adv. Journal of Food Science and Technology 5:1407-1412.
2. Abdelghafor, R. F., A. Mustafa., A. M.H. Ibrahim and P.G. Krishnan. 2011. Quality of Bread from Composite Flour of Sorghum and Hard White Winter Wheat. Adv. J. Food Sci. Technol. 3: 9-15.
3. Addison, C.K, R. E. Mason, G. Brown-Guedira, M. Guedira, Y. Hao, D.L. Lozada, A.M. Acuna, N.A. Arguello, N. Subramanian, J. Johnson, A.M.H. Ibrahim, R. Sutton, S.A. Harrison. 2016. QTL and major genes associated with grain yield in soft red winter wheat adapted to the southern United States. Euphytica 209:665–677.
4. Adhikari A, Basnet BR, Crossa J, Dreisigacker S, Camarillo F, Bhati PK, Jarquin D, Manes Y and Ibrahim AMH (2020) Genome-Wide Association Mapping and Genomic Prediction of Anther Extrusion in CIMMYT Hybrid Wheat Breeding Program via Modeling Pedigree, Genomic Relationship, and Interaction With the Environment. Front. Genet. 11:586687. doi: 10.3389/fgene.2020.586687.
5. Adhikari, A, AMH Ibrahim, JC Rudd, PS Baenziger, A Easterly, N Garst. 2020. Supplementing selection decisions in a hybrid wheat breeding program by using F 2 yield as a proxy of F 1 performance. Euphytica 216 (8), 1-18.
6. Adhikari, A.M.H. Ibrahim, J.C. Rudd, P. Stephen Baenziger, Jean-Benoit Sarazin. 2020. Estimation of heterosis and combining abilities of U.S. winter wheat germplasm for hybrid development in Texas. Crop Sci. 60 (2), 788-803. doi.org/10.1002/csc2.20020.
7. Afzal, F., B. Reddy, A. Gul, M. Khalid, A. Subhani, K. Shazadi, U. Masood Quraishi, A.M.H. Ibrahim, and A. Rasheed. 2017. Physiological, biochemical and agronomic traits associated with drought tolerance in a synthetic-derived wheat diversity panel. Crop and Pasture Science: https://doi.org/10.1071/CP16367.

8. Ali, M., A.M.H. Ibrahim, D.B. Hays, Z. Ristic, and J. Fu. 2010. Wild tetraploid wheat (*Triticum turgidum* L.) response to heat stress. Journal of Crop Improvement 24:228-243.
9. Ali, M., A.M.H. Ibrahim, S. Malla, J. Rudd, and D. Hays. 2013. Family-based QTL mapping of heat stress tolerance in primitive tetraploid wheat (*Triticum turgidum* L.). Euphytica 192:189-203.
10. Assanga, S.O., G. Zhang, C.-T. Tan, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, S. Chao, M.P. Fuentealba, S.Y. Liu. 2017. Saturated genetic map of wheat streak mosaic virus resistance gene *wsm2* in wheat. Crop Sci. 57:332–339.
11. Assanga, S.O., M.P. Fuentealba, G. Zhang, C.-T. Tan, S. Dhakal, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, S. Haley, J. Chen S. Chao, J. Baker, K. Jessup, S.Y. Liu. 2017. Mapping of quantitative trait loci for grain yield and its components in a US popular winter wheat TAM 111 using 90K SNPs. PloS one e0189669-e0189669.
12. Attia, A., N. Rajan, G. Ritchie, S. Cui, A.M.H. Ibrahim, D. Hays, Q. Xue, and J. Wilborn. 2015. Yield, Quality, and Spectral Reflectance Responses of Cotton under Sub-Surface Irrigation. *Agronomy Journal* 107:1355–1364.
13. Attia, A., N. Rajanb,Q Xue, S. Naird, A.M.H. Ibrahim, and D. Hays. 2016. Application of DSSAT-CERES-Wheat model to simulate winter wheatresponse to irrigation management in the Texas High Plains. Agricultural Water Management 165: 50–60.
14. Attia, A. N. Rajan, A.M.H. Ibrahim, Q. Xue, P. Delaune, S. Nair, and D. Hays. 2016. Modeling Cotton Lint Yield and Water Use Efficiency Responses to Various Irrigation Scheduling Strategies. Agronomy Journal 108:1–10.
15. Babiker, E., A.M.H. Ibrahim, Y. Yen, and J. Stein. 2009. Development of a Microsatellite Marker for tagging stem rust resistance gene Sr35 in wheat. Aust J. Crop Sci 3:195-200.
16. Babar, M. A., A. R. Blount , R. R. Barnett, C. Mackowiak, M. Akond, S. A. Harrison, J. W. Johnson, M. Mergoum, E. Mason, P. Murphy, A.M.H. Ibrahim, R. Sutton, and B. Simoneaux. 2016. Registration of "FL720" Oat. Journal of Plant Registration doi:10.3198/jpr2016.04.0025crc.
17. Baenziger, P.S., R. A. Graybosch, L. A. Nelson, T. Regassa, R. N. Klein, D. D. Baltensperger, D. K. Santra, A. M. H. Ibrahim, W. Berzonsky, J. M. Krall, L. Xu, S. N. Wegulo, M. L. Bernards, Y. Jin, J. Kolmer, J. H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2011. Registration of 'NH03614 CL' Wheat. J. Plant Registrations 5:75-80.
18. Baenziger, P.S., R. A. Graybosch, A.M.H. Ibrahim, D. D. Baltensperger, L. A. Nelson, Y. Jin, Stephen Wegulo, J. E. Watkins, Ming-Shun Chen, Guihua Bai, B. Beecher, and J. H. Hatchett. 2008. Registration of 'NE01643' wheat. Journal of Plant Registrations 2:36-42.
19. Bhandari, M., Baker, S., Rud, J., Ibrahim, A. M. H., Chang, A., Xue, Q., Jung, J., Landivar, J., Auvermann, B. 2021. Assessing the Effect of Drought on Winter Wheat Growth Using Unmanned Aerial System (UAS)-Based Phenotyping. *Remote Sens.* 2021, *13*(6), 1144; https://doi.org/10.3390/rs13061144 (registering DOI).
20. Bhandari, M., Ibrahim, A. M. H., Xue, Q., Jung, J., Chang, A., Rudd, J. C., ... & Landivar, J. (2021). Assessing winter wheat foliage disease severity using aerial imagery acquired from small Unmanned Aerial Vehicle (UAV). Computers and Electronics in Agriculture, 176, 105665.
21. Basnet, B.R., M.B. Ali, A.M.H. Ibrahim, T. Payne, M.G. Mosaad. 2011. Evaluation of genetic bases and diversity of Egyptian wheat cultivars released during the last 50 years using coefficient of parentage. Communications in Biometry and Crop Science 6: 31–47.
22. Basnet, B.R., K. Glover, Y. Yen, S. Chao, and A.M.H. Ibrahim. 2012. A QTL on chromosome 2DS of 'Sumai 3' increases susceptibility to Fusarium Head Blight in wheat. Euphytica 186:91-101.
23. Basnet B. R., A. M. H. Ibrahim, J. Rudd, R.P. Singh, J. Huerta-Espino and S. Herrera. 2013. Genetic analysis of Adult plant Stripe and leaf rust resistance in spring wheat line Quaiu3. Plant Disease 97:728-736.
24. Basnet, B.R., R. P. Singh, A. M. H. Ibrahim, S. A. Herrera-Foessel, J. Huerta-Espino, C. Lan & J. C. Rudd. 2014. Characterization of Yr54 and other genes associated with adult plant resistance to yellow rust and leaf rust in common wheat Quaiu 3. Molecular Breeding 33:385-399.
25. Basnet B.R., A.M.H Ibrahim, X. Chen, R.P Singh, D.B. Hays, E.R Mason, S. Liu, R. Bowden, R.N. Devkota, N.K. Subramanian, and J.C. Rudd. 2014. Molecular Mapping of Stripe Rust Resistance in Hard Red Winter Wheat TAM 111 Adapted to the U.S. High Plains. Crop Science 54:1-13.
26. Beecher, F., E. Mason, S. Mondal, A. M. H. Ibrahim, and D. Hays. 2012. Identification of Quantitative Trait Loci (QTLs) Associated with Maintenance of Wheat (*Triticum aestivum* Desf.) End-use Quality under Heat Stress Conditions. Eupytica 188:361–368.
27. Bockus, W. W., P. S. Baenziger, and A. M. H. Ibrahim. 2008. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2007. Plant Disease Management Reports. 1:CF009.

28. Boote, K.J., A.M.H. Ibrahim, R. Lafitte, R.L. McCulley, C. Messina, S.C. Murray, J.E. Specht, S. Taylor, M.E. Westgate, K. Glasener, C.G. Bijil, and J.H. Giese. 2011. Position statement on crop adaptation to climate change. Crop Sci. 51:2337-2343.
29. Butcher, J.D., K. M. Crosby, A.M.H. Ibrahim, D. I. Leskovar, L. Jifon, K.S. Yooi, and B. Patil. 2012. Environmental and genotypic variation of Capsaicinoid and flavonoid concentrations in Habanero (*Capsicum chinense*) peppers. HortScience 47:574-579.
30. Chen, Y., J. T. Cothren, D. Chen, A. M. H. Ibrahim, and L. Lombardini. 2014. Effect of 1-MCP on Cotton Plants under Abiotic Stress Caused by Ethephon. American Journal of Plant Sciences 5: 3005-2016.
31. Chen, Y., J. Dehua Chen, T. Cothren, A. M.H. Ibrahim, L. Lombardini. 2014. Effect of 1-MCP on boll development and subtending leaves of cotton plants. American Journal of Plant Sciences 5:3345-3353.
32. Chen, Y., J. T. Cothren, C. De-hua, A. M.H. Ibrahim, and L. Lombardini. 2015. Ethylene inhibiting compound 1-MCP delays leaf senescence in cotton plants under abiotic stress conditions. Journal of Integrative Agriculture. Doi：10.1016/S2095-3119(14)60999-0.
33. Chu, Chenggen, Shichen Wang, Li Paetzold, Zhen Wang, Kele Hui, Jackie C Rudd, Qingwu Xue, Amir MH Ibrahim, Richard Metz, Charles D Johnson, Charles M Rush, Shuyu Liu. 2021. RNA-seq analysis reveals different drought tolerance mechanisms in two broadly adapted wheat cultivars 'TAM 111' and 'TAM 112'. Sci Rep 11, 4301 (2021). https://doi.org/10.1038/s41598-021-83372-0.
34. Chu, C., Wang, S., Rudd, J.C., A.M.H. Ibrahim et al. 2022 A new strategy for using historical imbalanced yield data to conduct genome-wide association studies and develop genomic prediction models for wheat breeding. Mol Breeding 42, 18. https://doi.org/10.1007/s11032-022-01287-8.
35. Cooper, J., A.M.H. Ibrahim, J. Rudd, D. Hays, J. Baker, and S. Malla. 2012. Increasing Hard Winter Wheat Yield Potential via Synthetic Wheat: I. Path-coefficient Analysis of Yield and its Components. Crop Science 52: 2014-2022.
36. Cooper, J., A.M.H. Ibrahim, J. Rudd, D. Hays, J. Baker, and S. Malla. 2013. Increasing Hard Winter Wheat Yield Potential via Synthetic Wheat: II. Heritability and Combining Ability of Yield and its Components. Crop Science 53: 67-73.
37. Dhakal S, Liu X, Chu C, Yang Y, Rudd JC, Ibrahim AMH, Xue Q, Devkota RN, Baker JA, Baker SA, Simoneaux BE, Opena GB, Sutton R, Jessup KE, Hui K, Wang S, Johnson CD, Metz RP, Liu S. 2021. Genome-wide QTL mapping of yield and agronomic traits in two widely adapted winter wheat cultivars from multiple mega-environments. *PeerJ* 9:e12350 https://doi.org/10.7717/peerj.12350.
38. Dhakal, Smit, Xiaoxiao Liu, Audrey Girard, Chenggen Chu, Yan Yang, Shichen Wang, Qingwu Xue, Jackie C. Rudd, Amir M.H. Ibrahim, Joseph M. Awika, Kirk E. Jessup, Jason A. Baker, Lisa Garza, Ravindra N. Devkota, Shannon Baker, Charles D. Johnson, Richard P. Metz, and Shuyu Liu. 2020. Genetic dissection of end-use quality traits in two widely-adapted wheat cultivars 'TAM 111' and 'TAM 112'. Crop Sci. https://doi.org/10.1002/csc2.20019 (doi: 10.1002/csc2.20019). 61:1944–1959.
39. Dhakal, S., C.-T. Tan, V. Anderson, H. Yu, M.P. Fuentealba, J.C. Rudd, S.D. Haley, Q. Xue, A.M.H. Ibrahim, L. Garza, R. Devkota, S.Y. Liu. 2018. Mapping and KASP Marker Development for Wheat Curl Mite Resistance in 'TAM 112' Wheat Using Linkage and Association Analysis. Mol Breed. 38: 119. https://doi.org/10.1007/s11032-018-0879-x.
40. Darapuneni, M.K., G.D. Morgan, A.M.H. Ibrahim, and R.W. Duncan. 2014. Effect of vernalization and photoperiod on flax flowering time. Euphytica 195:279-285.
41. Darapuneni, M.K., G. D. Morgan, A. M. H. Ibrahim, and R. W. Duncan. 2014. Association of flax seed yield and its components in Southeast Texas using path coefficient and biplot analyses. Journal of Crop Improvement 28:1–17.
42. Darapuneni, M.K., G.D. Morgan, A.M.H. Ibrahim, and R.W. Duncan. 2014. Evaluation of flax genotypes for cold tolerance and yield in South-East Texas. J Agro Crop Sci ISSN 0931-2250. DOI: 10.1111/jac.12097.
43. Darapuneni, M.K., G. D. Morgan, A. M. H. Ibrahim, R. W. Duncan, B. Bean, T. Baughman, C. Trostle, L. Tarpley, R. Sutton, J. Grichar, and B. Wiedenfeld. 2014. The evaluation of cool-season oilseed crops for yield and adaptation in Texas: an approach for selection of efficient biofuel feedstock. International Journal of Agronomy and Agricultural Research 5:62-74.
44. Easterly, Amanda C, Nicholas Garst, Vikas Belamkar, Amir MH Ibrahim, Jackie C Rudd, Jean-Benoit Sarazin, P. Stephen Baenziger. 2020. Evaluation of hybrid wheat yield in Nebraska. Crop Sci. DOI: 10.1002/csc2.20019.
45. Easterly, Amanda C, Walter W Stroup, Nicholas Garst, Vikas Belamkar, Jean-Benoit Sarazin, Thierry Moittié, Amir MH Ibrahim, Jackie C Rudd, Edward Souza, P Stephen Baenziger. 2019. Determining the Efficacy of a Hybridizing Agent in Wheat (*Triticum aestivum* L.). *Sci Rep* 9, 20173.

https://doi.org/10.1038/s41598-019-56664-9.
46. Eder, Z.P., S. Singh, D. Fromme, D.A. Mott, A.M.H. Ibrahim, and G. D. Morgan. 2017. Cotton harvest aid regimes and their interaction with cotton cultivar characteristics impacting leaf grade. Agronomy Journal 109: 2714-2722.
47. Fu, J., R.L. Bowden, P.V. Prasad, and A.M.H. Ibrahim. 2015. Genetic Variation for Heat Tolerance in Primitive Cultivated Subspecies of *Triticum turgidum* L. *Journal of Crop Improvement* 29:565–580.
48. Gerrish, B., C. Neely, A.M.H. Ibrahim, A. Knutson. 2021. Evaluation of Barley (Hordeum vulgare) and Wheat (Triticum aestivum) for Resistance to Hessian Fly, Mayetiola destructor, in a Controlled Environment. SOUTHWESTERN ENTOMOLOGIST. Vol. 46, No 4.
49. Gerrish, B., A.M.H. Ibrahim, J.C. Rudd, C. Neely, and N.K. Subramanian. 2019. Identifying mega-environments for hard red winter wheat (*Triticum aestivum* L.) production in Texas. Euphytica. 215:129 https://doi.org/10.1007/s10681-019-2448-8 (0123456789.
50. Gerrish, B, C. Neely, A.M.H. Ibrahim and A. Knutson. 2019. Evaluation of Winter Barley Lines for Resistance to the Hessian Fly, 2017. Arthropod Management Tests, Volume 44, Issue 1, 2019, tsz070, https://doi.org/10.1093/amt/tsz070.
51. Glover, J.D., J.P. Reganold, L.W.Bell, J. Borevitz, E.C. Brummer, E.S. Buckler, C.M. Cox, T.S. Cox, T.E. Crews, S.W. Culman, L.R. DeHaan, D. Eriksson, B.S. Gill, J. Holland, F. Hu, B.S. Hulke, A.M.H. Ibrahim, W. Jackson, S.S. Jones, S.C. Murray, A.H. Paterson, E. Ploschuk, E.J. Sacks, S. Snapp, D. Tao, D.L. Van Tassel, L.J. Wade, D.L. Wyse, Y. Xu. 2010. Increased food and ecosystem security via perennial grains. Science 330: 33-34.
52. Glover, J.D., J.P. Reganold, L.W.Bell, J. Borevitz, E.C. Brummer, E.S. Buckler, C.M. Cox, T.S. Cox, T.E. Crews, S.W. Culman, L.R. DeHaan, D. Eriksson, B.S. Gill, J. Holland, F. Hu, B.S. Hulke, A.M.H. Ibrahim, W. Jackson, S.S. Jones, S.C. Murray, A.H. Paterson, E. Ploschuk, E.J. Sacks, S. Snapp, D. Tao, D.L. Van Tassel, L.J. Wade, D.L. Wyse, Y. Xu. 2010. Perennial Questions of Hydrology and Climate—Response. Science 328:1638-1639.
53. Guo, Jia, Jahangir Khan, Sumit Pradhan, Dipendra Shahi, Naeem Khan, Muhsin Avci, Jordan Mcbreen, Stephen Harrison, Gina Brown-Guedira, J Paul Murphy, Jerry Johnson, Mohamed Mergoum, Richanrd Esten Mason, Amir MH Ibrahim, Russel Sutton, Carl Griffey, Md Ali Babar. 2020. Multi-Trait Genomic Prediction of Yield-Related Traits in US Soft Wheat under Variable Water Regimes. Genes 11 (11), 1270.
54. Gu, X.-Y., L. Zhang, K. Glover, C. Chu, S.S. Xu, J.D. Faris, T.L. Friesen, A. M.H. Ibrahim. 2010. Genetic variation of seed dormancy in synthetic hexaploid wheat-derived populations. Crop Sci. 50:1318–1324.
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56. Hakizimana, F., A. M. H. Ibrahim, M. C. A. Langham, S. D. Haley, and J. C. Rudd. 2004. Diallel Analysis of Wheat Streak Mosaic Virus Resistance in Winter Wheat. Crop Sci. 44:89-92.
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60. Hussain, B. ; Akpınar, B. A. ; Alaux, M. ; Algharib, A. M. ; Sehgal, D. ; Ali, Z. ; Appels, R. ; Aradottir, G. I. ; Batley, J. ; Bellec, A. ; Bentley, A. R. ; Cagirici, H. B. ; Cattivelli, L. ; Choulet, F. ; Cockram, J. ; Desiderio, F. ; Devaux, P. ; Dogramaci, M. ; Dorado, G. ; Dreisigacker, S. ; Edwards, D. ; El-Hassouni, K. ; Eversole, K. ; Fahima, T. ; Figueroa, M. ; Gálvez, S. ; Gill, K. S. ; Govta, L. ; Gul, A. ; Hensel, G. ; Hernandez, P. ; Herrera, L. C. ; Ibrahim, A. ; Kilian, B. ; Korzun, V. ; Krugman, T. ; Li YingHui ; Liu ShuYu ; Mahmoud, A. F. ; Morgounov, A. ; Muslu, T. ; Naseer, F. ; Ordon, F. ; Paux, E. ; Perovic, D. ; Reddy, G. V. P. ; Reif, J. C. ; Reynolds, M. ; Roychowdhury, R. ; Rudd, J. ; Sen, T. Z. ; Sukumaran, S. ; Tiwari, V. K. ; Ullah, N. ; Unver, T. ; Yazar, S. ; Budak, H. 2021. Wheat genomics and breeding: bridging the gap. AgriRxiv 2021 pp.57 pp. ref.296. DOI : 10.31220/agriRxiv.2021.00039.
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Dreisigacker S, Edwards D, El-Hassouni K, Eversole K, Fahima T, Figueroa M, Gálvez S, Gill KS, Govta L, Gul A, Hensel G, Hernandez P, Crespo-Herrera LA, Ibrahim A, Kilian B, Korzun V, Krugman T, Li Y, Liu S, Mahmoud AF, Morgounov A, Muslu T, Naseer F, Ordon F, Paux E, Perovic D, Reddy GVP, Reif JC, Reynolds M, Roychowdhury R, Rudd J, Sen TZ, Sukumaran S, Ozdemir BS, Tiwari VK, Ullah N, Unver T, Yazar S, Appels R and Budak H (2022) Capturing Wheat Phenotypes at the Genome Level. Front. Plant Sci. 13:851079. doi: 10.3389/fpls.2022.851079.

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Honors and Awards

1. Outstanding Associate Editor, Agrosystems, Geosciences & Environment, 2021
2. Texas A&M Vice Chancellor's Award in Excellence; International Involvement, 2020
3. B.B. Singh Award for Research in Crop Sciences, 2020
4. National Genetic Resources Advisory Council (NGRAC), to represent the Cultivar or Animal Breed Development category. 2020 - Present
5. Texas A&M Vice Chancellor's Award in Excellence; Team collaboration (Wheat Genomics Team), 2019
6. Distinguished Alumni Award, American University of Beirut, Lebanon, 2019
7. Regents Professor, 2019
8. ASA Fellow, 2018
9. Graduate of Cohort IV Advanced Leadership Program, Texas A&M, 2016 - 2018
10. Texas A&M AgriLife Research Faculty Fellow, 2017
11. Texas A&M AgriLife Fellow, 2017
12. Soil and Crop Sciences Department, Texas A&M - Teaching Award, 2017
13. Texas A&M College of Agriculture and Life Sciences Dean's Award – International Impact, 2017
14. CSSA Fellow, 2017
15. Texas A&M College of Agriculture and Life Sciences Dean's Award – Multidisciplinary Team, 2015
16. Texas A&M Technology Commercialization Team Innovation Award, 2013
17. Texas A&M Vice Chancellor's Team Award, 2013
18. Soil and Crop Sciences Department, Texas A&M - Individual Achievement Research Award, 2013
19. 2010 Recognized for outstanding service to Texas agriculture and to the Texas Plant Protection Association as President for Texas Plant Protection Association, 2010
20. 2005 – Wheat Quality Council "Best of Show" (awarded for the highest quality wheat entered into the 2005 Wheat Quality Council trials, Kansas City, Missouri
21. 1998 - Takumi Tsuchiya Graduate Achievement Award, Colorado State University
22. 1992- 1994 - Royal Government of the Netherlands Scholarship