



**CURRICULUM VITAE
NEIL H. CHARNESS**

May 2018

Biographical Data

Born: July 6, 1948.
Place: Montreal, Canada.
Citizenship: USA.

Academic History

1965-1969: McGill University, Honours BA
1969-1974: Carnegie Mellon University, MS, Ph.D.

Employment

1974-1977: Assistant Professor, Wilfrid Laurier University.
1977-1982: Assistant Professor, University of Waterloo.
1982-1990: Associate Professor, University of Waterloo.
1984-85: Sabbatical Fellow at the Mental Performance & Aging Laboratory, VA Outpatient Clinic, Boston, MA.
1985: Cross appointed to the Kinesiology Department, University of Waterloo.
1990-91: Visiting Scholar at the Psychology Department, University of Victoria, Victoria, BC
1991-1993: Professor, Psychology and Gerontology, University of Waterloo
1993: Professor, Department of Health Studies and Gerontology, University of Waterloo
1993: Visiting Scientist, Max Planck Institute for Human Development and Education, Berlin (4 months).
1994: Professor, Psychology, Florida State University; Research Affiliate, Pepper Institute on Aging and Public Policy, The Florida State University
2000 Research Associate, Pepper Institute on Aging and Public Policy, The Florida State University
2006 William G. Chase Professor of Psychology, Florida State University

Memberships in Associations

Canadian Association on Gerontology: Chairman, Psychology Division, 1984-85. Member, Management Committee, 1984-85; Member of nominating committee for the Psychology division, 1990.

Canadian Psychological Association, Member of nominating committee for Section on Gerontological Psychology, 1990.

Chair, Section 17 (Adult Development and Aging), 1993-94
Fellow, 1993.

American Psychological Association: Member since 1992; Fellow, Division 20 (Adult Development and Aging), 1995; Program Chair, Division 20, 1998; elected Member-at-Large, 2002; elected President-elect 2004; Elected to Committee on Aging, 2010. Fellow Division 21 (Applied Experimental and Engineering Psychology). Fellow Division 3 (Experimental).

Human Factors and Ergonomics Society: Member since 1993

Gerontological Society of America: Fellow, 1994

Association for Psychological Science: Fellow, 1997.

American Telemedicine Association: Chair, Human Factors SIG

Sigma Xi

International Society of Gerontechnology: founding board member, 1996; executive committee, program committee, 1999; Awarded Honorary Member, 2008.

Awards

Jack A. Kraft Innovator Award (with CREATE colleagues) from the Human Factors and Ergonomics Society, 2013.

The Franklin V. Taylor Award for Outstanding Contributions in the Field of Applied Experimental / Engineering Psychology, from Division 21 (Applied Experimental and Engineering Psychology) of the American Psychological Association, 2016.

M. Powell Lawton Distinguished Contribution Award for Applied Gerontology, from Division 20 (Adult Development and Aging) of the American Psychological Association, 2016.

American Psychological Association inaugural (2016) Prize for Interdisciplinary Team Research, awarded to the Center for Research and Education on Aging and Technology Enhancement (CREATE). Neil Charness is one of the Principal Investigators.

International Society for Gerontechnology Grandmaster award, 2018.

American Psychological Association, Committee on Aging Award for the Advancement of Psychology and Aging, 2018.

Grants

Quebec Postdoctoral Fellowship, 1974 (refused).

Wilfrid Laurier Summer Research Fellowship, 1975.

Natural Sciences and Engineering Research Council of Canada: Grant A0790, *Aging and Skilled Problem Solving*. 1977-80, 1980-83, 1983-86, 1986-89, 1989-92, 1992-95.

Social Sciences and Humanities Research Council of Canada: Leave Fellowship (451-84-4284), 1984-85 for *Attitudes Mediating the Effectiveness of CAI with Older Adults*.

Digital Equipment Canada/University of Waterloo: 1984-1988. Equipment Grant, *Office Automation and the Older Worker*.

Bell-Northern Research: 1987, 1988 (to support Ph.D. candidate, Elizabeth Bosman), *Aging and keyboard performance*.

Canadian Government's National Networks of Centres of Excellence Program, *Canadian Aging Research Network: Promoting Independence and Productivity in an Aging Society*, Cognitive Group, University of Waterloo node, 1990-1995.

DAAD, New York (German Government Academic Exchange) Award for Study Visit to Germany for 2 months, 1993.

Retirement Research Foundation: 1994-95, "An applied perspective on legibility and aging" (\$20,680).

Retirement Research Foundation: 1995-97, "Improving Access to Public Services for Seniors: Luminance, Legibility and Noise". (\$42,727)

National Institutes of Health/National Institute on Aging, 1996-2000, R01 AG13969-01 "Life-span Expertise". (\$602,319, direct costs)

National Institutes of Health/National Institute on Aging, 1998-1999, 3 R01 AG13969-02S1 Research Supplement for Underrepresented Minorities for "Life-span Expertise". (\$67,288, direct costs)

National Institutes of Health/National Institute on Aging, 1999-2004, 1 PO1 AG17211, Co-Principal Investigator, Project CREATE (Center for Research and Education on Aging and Technology Enhancement). PI is Sara Czaja, University of Miami. (\$379,784, direct costs)

Alzheimer's Association. 2002. Conference Grant for Student Support for Gerontechnology 2002 Conference. (\$2000).

Social Sciences and Humanities Research Council (Canada) Grant 512-2002-1001, 2002-2006. "Aging Workforce in The New Economy". Co-Principal Investigator, US Team. PI is Julie McMullin, University of Western Ontario, Canada. (~\$460,000 direct costs for US component; ~\$100,000 for FSU, shared with Dr. Melissa Hardy, co-PI)

- National Science Foundation, 2003. Co-Investigator for a Catalyst Award for a Science of Learning Center for the study of Expertise. Awarded to the Associates of the Florida Alliance for the Study of Expertise. (\$220,000).
- National Institutes of Health/National Institute on Aging, 2004-2009, Continuation of 1 PO1 AG17211, Co-Principal Investigator, Project CREATE II (Center for Research and Education on Aging and Technology Enhancement). PI is Sara Czaja, University of Miami. (~\$657,000, direct costs).
- Florida Department of Transportation, 2007-2008; Intersection and Pedestrian Safety Research. \$328,000 total costs.
- Florida Department of Transportation, BDK83-977-09, 2009-2011; Intersection and Pedestrian Safety Research. \$215,000 total costs.
- National Institute on Aging Sub-contract for an SBIR to AFrame Digital, Non-Intrusive Automated Portable Data Collection System for Aging Surveys, 2009-2010 “Evaluating reliability of and comfort for a portable vital signs monitoring device with older adults”. (\$28,980)
- National Institutes of Health/National Institute on Aging, 2009-2014, Continuation of 1 PO1 AG17211, Co-Principal Investigator, Project CREATE III (Center for Research and Education on Aging and Technology Enhancement). Co-PI is Walter Boot. (~\$1,000,000, direct costs).
- Florida Department of Transportation, BDK83-977-12, 2011-2012; Aging Driver and Pedestrian Safety: Parking Lot Hazards study. (\$130,000, total costs). Co-PI is Walter Boot
- Florida Department of Transportation, BDK83-977-15, 2011-2012; Aging Driver and Pedestrian Safety: Bicyclist and Pedestrian Safety. (\$247,618 total costs); Role co-PI. PI is Walter Boot.
- Sub-contract from Hogeschool Utrecht, PETZ (Predictors for the Use of e-Health by older adults and professional caregivers), 2011-2013, (31,000 €total costs). Co-PI Walter Boot.
- National Institutes of Health/National Institute on Aging, Co-PI, R44 AG29196, 2012-2014, Sub-contract for a Phase II SBIR to AFrame Digital, “Aging Surveys II”, (~\$380,000 total costs). PI is Amy Papadopolous (AFrame Digital), Role is co-PI with co-PI Walter Boot.
- Florida Department of Transportation, BDK83 977-21, 2012-2014; Aging Road User Studies of Crosswalk and Intersection Safety, (~\$354,000 total costs), Role co-PI; PI is Walter Boot.
- US Department of Transportation. UTC Tier 1. Safe and Accessible Transportation for an Aging Population, (~1,400,000 in direct costs). John Sobanjo, PI. Role: co-PI and Associate Director.
- National Institutes of Health/National Institute on Aging, 2015-2020, 4 PO1 AG17211, Co-Principal Investigator, Project CREATE IV (Center for Research and Education on Aging and Technology Enhancement). Co-PI at FSU is Walter Boot. (~\$1,000,000, direct costs).
- Florida Department of Transportation, BDV30 TWO 977-10, 6/2014-9/30/2015. Driving simulator studies of the effectiveness of countermeasures to prevent wrong way crashes. (\$220,838 in costs). Role co-PI, PI is Walter Boot.
- Florida Department of Transportation, BVD30 TWO 977-11, 5/29/2014-12/31/2015: Enhanced mobility for aging population using automated vehicles. (\$305,838 in costs). Role co-PI, PI is Michael Duncan.
- Florida Department of Transportation, BVD30 TWO 977-15. 11/1/2015-5/1/2017: Human factors guidelines to develop educational tip cards for aging road users. (\$215,000 in costs). PI is Neil Charness; Co-PIs Walter Boot, Michael Kaschak, Laura Arpan; Co-Is Juliann Cortese, Russell Clayton.

Editorial Appointments:

- Editor, Psychology section, 1985-1989. *Canadian Journal on Aging/Revue Canadienne du Vieillissement*.
- Editorial Board, 1987-1991; 2000+ *Journal of Gerontology: Psychological Sciences*.
- Editorial Board, 1987+ John Wiley & Sons: *Human Performance and Cognition* series.
- Editorial Board: 1993-1996. *Aging, Neuropsychology, and Cognition*.
- Editorial Board: 1994-1996. *Psychological Bulletin*.
- Editorial Board, 1992-2001; 2003+ *Psychology and Aging*.
- Editorial Board, 2001+ *Gerontechnology*.
- Editorial Board: 2007-2010 *Journal of Experimental Psychology: Applied*.

Courses Taught

Introductory Psychology, Cognition, Memory, Research Methodology, Problem-solving, Sensory Processes/Perception, Measurement in Psychology, Aging and Basic Psychological Processes, Aging and Human Performance, Cognitive Psychology of Skill, Issues in Cognitive Assessment in Aging, Introduction to Expertise and Skill Acquisition, Age and Human Factors, Age and Cognition.

MA and MASc Students Supervised and Year of Graduation

Jamie Campbell 1982, MA Psychology
Gail Langer/Gluckman 1989, MASc Psychology
Jennifer Healey 1989, MASc Psychology
Susan Petelka 1989, MASc Psychology
Cynthia Schumann 1990, MASc Psychology
Claudine Carlson 1992, MASc Psychology
Catherine Kelley, 1993, MA Gerontology
Lynn Williamson, 1993, MA Gerontology
Terry Gillis, 1994, MASc Psychology/Gerontology
Laurie Smith, 1994, MASc Psychology
Sherry Obenauer, 1994, MA Gerontology
Kim Anatooshkin, 1994, MASc Psychology/Gerontology
Steve Schultetus, 1999, MS Psychology
Michael Tuffiash, 2002, MS Psychology
Tiffany Jastrzembki, 2003, MS Psychology
Mark Fox, 2008, MS Psychology
Ryan Yordon, 2009, MS Psychology
Ryan Best, 2011, MS Psychology
Avner Dachoach, 2011, MS Psychology
Dustin Souders, 2013, MS Psychology
Cary Stothart, 2013, MS Psychology

Doctoral Students Supervised and Year of Graduation

Jamie Campbell 1985
Jane Clifton 1986
Jeff Graham 1987
Elizabeth Bosman 1991
Sherrie Bieman-Copland 1992
Mert Cramer, Computer Science, University of Waterloo (Co-supervised with Frank Tompa), 1994
Wanda Towers, 1996
Catherine Kelley, 1996
Robert Elliott, 2002
Tiffany Jastrzembki, 2006
Tres Roring, 2008
Mark Fox, 2011
Cary Stothart, 2016
Ryan Best, 2016
Dustin Souders 2017

In Progress

Hellen Pham

Post Doctoral Students

Katinka Dijkstra, Psychology, FSU
David Mireles, Psychology, FSU
Patricia Holley, Psychology, FSU
Clare MacMahon, Psychology, FSU
David Rodrick, Psychology, FSU

Jong-Sung Yoon, Psychology, FSU

Administrative Experience:

University of Waterloo

- Undergraduate Psychology advisor
 - Provided advice to majors and honors students about course selection and thesis choice.
- Co-operative Psychology Program advisor
 - Helped arrange and monitor summer co-op placements for Psychology students as part of the University's co-op program expansion from engineering to other colleges and departments
- Division Chair of Cognition/Perception
 - Provided guidance to graduate students in the Cognition/Perception program and helped organize division activities such as course scheduling, academic requirement changes for the PhD program
- Member of the Arts Faculty Council on Co-operative Education
 - Helped monitor and set policy for co-op education options in the Faculty of Arts
- Member of the University Committee on Gerontology
 - Organized and set standards for the new Gerontology program
- Graduate Officer for the University Gerontology Program
 - Monitored student progress and program requirements
- Graduate Officer for Special Programs in Psychology
 - Monitored student progress and program requirements for terminal Master's programs
- Associate Chair, Undergraduate Program, Psychology
 - Monitored undergraduate programs
- Associate Dean for Computing and Communications, Faculty of Arts
 - Monitored computing staff and resources in the College and served on the University Computing Committee
 - Proposed the university's domain name: uwaterloo.ca
- Senate Research Council Representative for Faculty of Applied Health Sciences
 - Represented the Faculty of Applied Health Sciences in the Senate
- Associate Chair, Graduate Studies, Department of Health Studies and Gerontology
 - Supervised graduate program requirements and standards
 - Substituted for the chair when she was absent

The Florida State University

- Director, Cognitive and Behavioral Sciences Area, Psychology Department, Florida State University
 - Supervised the Area's graduate program, including drafting requirements and guidelines for students, supervised admissions of new students and monitored progress of enrolled students
- Chair, Electronic Communications Committee, Psychology Department
 - Supervised computing staff
 - Set standards for departmental e-mail etiquette
 - Set guidelines for web pages
- Member: Undergraduate Affairs Committee, Graduate Affairs Committee, Faculty Development Committee, Executive Committee, Building Committee (Psychology Department)
- Member: Promotion & Tenure Committee, Graduate Entrance Scholarship Committee (College of Arts & Sciences)
- Member: University Senate
- Member: Committee on Research and Creativity (CRC: University level)
 - CRC is the top-level university research committee advising the VP for Research with representation from all Colleges and Institutes
- Chair: Committee on Research and Creativity (2000-2002)
 - Supervised internal grants programs, sub-committees, and met monthly with the VP for Research
- Chair: CRC Grant Program Evaluation Committee (2002-2003)
- Member: Corporate R&D Coordination Committee (2002-2003).

- Member: Committee on Research and Creativity Steering Committee (2005-2012)
- Member: Pathways of Excellence Committee (2007)
- Associate Director, University Transportation Center on Accessibility and Safety for an Aging Population (ASAP) (2013+)
 - ASAP is a multi-disciplinary (engineering, psychology, urban and regional planning, geography, health sciences), multi-university center (FAMU-FSU College of Engineering, University of North Florida)
- Interim Director, Institute for Successful Longevity (2013-2014)
 - Generated the plan for the Institute as a “Big Idea”
 - Generated documentation for (and met with every Dean at FSU) to have the Institute approved by the Florida Board of Governors as an interdisciplinary Institute
 - Served on the Director search committee
 - Managed the trademarking process for the logo for the Institute
 - Initiated a Successful Longevity Lecture Series
 - Coordinated development of the Institute’s web site
 - Invited Merrill Lynch executives to a research pitch by FSU scholars resulting in a grant to the Dean of Criminology for a study on Fraud affecting Seniors
 - Worked with St Joe Corporation executives to pitch research projects and white papers to support their new WaterSound retirement community
- Director, Institute for Successful Longevity (2015+)
 - Hired administrative and communications staff
 - Appointed internal and community advisory board members
 - Appointed community Ambassadors
 - Launched a planning grant program for interdisciplinary teams
 - Launched a monthly Successful Longevity interdisciplinary brown bag series
 - Launched a web-based research registry of community volunteers (1350+ registrants)
 - Appointed 85+ Affiliates to the Institute
 - Chaired interdisciplinary aging grant planning groups
 - Served on search committees for faculty appointments associated with the Institute and with the University’s Brain Health and Disease Initiative
 - Assumed chairmanship of the Directors of Aging Centers Group and registered it as an interest group with the Gerontological Society of America (54 Centers in the US, Canada, EU)
 - Led the initiative to have FSU become designated as an Age-Friendly University
 - Developed links with local community agencies concerned with aging

Current Research Activities

- Aging and Technology Use from a Human Factors Perspective
- Older Driver and Pedestrian Safety
- Aging and Expert Performance.

Refereed Journal Publications

1. Charness, N., and Bregman, A.S. (1973). Transformations in the recognition of visual forms. *Canadian Journal of Psychology*, 27, 367-380.
2. Charness, N. (1976). Memory for chess positions: Resistance to interference. *Journal of Experimental Psychology: Human Learning and Memory*, 2, 641-653.
3. Charness, N. (1979). Components of skill in bridge. *Canadian Journal of Psychology*, 33, 1-16.
4. Charness, N. (1981). Aging and skilled problem solving. *Journal of Experimental Psychology: General*, 110, 21-38. (Reprinted in Lawton, M. P., & Salthouse, T. A. (Eds.) (1998). *Essential papers on the psychology of aging*. New York: New York University Press.)
5. Charness, N. (1981). Search in chess: Age and skill differences. *Journal of Experimental Psychology: Human Perception and Performance*, 7, 467-476.

6. Charness, N. (1981). Visual short-term memory and aging in chess players. *Journal of Gerontology*, *36*, 615-619.
7. Charness, N. (1982). Problem solving and aging: Evidence from semantically rich domains. *Canadian Journal on Aging*, *1*, 21-28.
8. Charness, N. (1983). Age, skill, and bridge bidding: A chronometric analysis. *Journal of Verbal Learning and Verbal Behavior*, *22*, 406-416.
9. Charness, N. (1987). Component processes in bridge bidding and novel problem-solving tasks. *Canadian Journal of Psychology*, *41*, 223-243.
10. Charness, N. (1988). The role of theories of cognitive aging: Comment on Salthouse. *Psychology and Aging*, *3*, 17-21.
11. Charness, N. & Campbell, J. I. D. (1988). Acquiring skill at mental calculation in adulthood: A task decomposition. *Journal of Experimental Psychology: General*, *117*, 115-129.
12. Milberg, W., Alexander, M.P., Charness, N., McGlinchey-Berroth, R., & Barrett, A. (1988). Learning a complex arithmetic skill in amnesia: Evidence for a dissociation between compilation and production. *Brain and Cognition*, *8*, 91-104.
13. Charness, N., Milberg, & Alexander, M.P. (1988). Teaching an amnesic a complex cognitive skill. *Brain and Cognition*, *8*, 253-272.
14. Zandri, E. & Charness, N. (1989). Training older and younger adults to use software. *Educational Gerontology*, *15*, 615-631.
15. McGlinchey-Berroth, R., Milberg, W. P., & Charness, N. (1989). Learning of a complex arithmetic skill in dementia: Further evidence for a dissociation between compilation and production. *Cortex*, *25*, 697-705.
16. Campbell, J.I.D. & Charness, N. (1990). Age-related declines in working memory skills: Evidence from a complex calculation task. *Developmental Psychology*, *26*, 879-888.
17. Charness, N. (1992). The impact of chess research on cognitive science. *Psychological Research*, *54*, 4-9.
18. Charness, N., Schumann, C. E., & Boritz, G. M. (1992). Training older adults in word processing: Effects of age, training technique, and computer anxiety. *International Journal of Technology and Aging*, *5*, 79-106.
19. Charness, N. & Bosman, E. A. (1994). Age-related changes in perceptual and psychomotor performance: Implications for engineering design. *Experimental Aging Research*, *20*, 45-59.
20. Bieman-Copland, S. & Charness, N. (1994). Memory knowledge and memory monitoring in adulthood. *Psychology and Aging*, *9*, 287-302.
21. Ericsson, K. A. & Charness, N. (1994). Expert performance: Its structure and acquisition. *American Psychologist*, *49*, 725-747.
22. Kelley, C. L., & Charness, N. (1995). Issues in training older adults to use computers. *Behaviour and Information Technology*, *14*(2), 107-120.
23. Charness, N. (1995). Psychological Models of Aging: How, who, and what? A comment. *Canadian Journal on Aging*, *14*, 67-73.
24. Ericsson, K. A., & Charness, N. (1995). Abilities: Innate talent or characteristics acquired through engagement in relevant activities? *American Psychologist*, *50*, 803-804.
25. Charness, N., & Gerchak, Y. (1996). Participation rates and maximal performance: A Log-linear explanation for group differences, such as Russian and male dominance in chess. *Psychological Science*, *7*, 46-51.
26. Charness, N. (1998). Explaining exceptional performance: Constituent abilities and touchstone phenomena. *Behavioral and Brain Sciences*, *21*, 410-411.
27. Kelley, C.L., Bosman, E.A., Charness, N.H., & Mottram, M.A. (1998). Reliability assessment of a user proficiency measurement technique. *International Journal of Human-Computer Interaction*, *10*, 33-49.
28. Charness, N., & Dijkstra, K. (1999). Age, luminance, and print legibility in homes, offices, and public places. *Human Factors*, *41*(2), 173-193.
29. Schultetus, S. & Charness, N. (1999). Recall vs. position evaluation revisited: The importance of position-specific memory in chess skill. *American Journal of Psychology*, *112* (4), 555-569.
30. Reingold, E. M., Charness, N., Pomplun, M., & Stampe, D. M. (2001). Visual span in expert chess players: Evidence from eye movements. *Psychological Science*, *12*, 48-55.

31. Charness, N., Kelley, C. L., Bosman, E. A., & Mottram, M. (2001). Word processing training and retraining: Effects of adult age, experience, and interface. *Psychology and Aging, 16*, 110-127.
32. Charness, N., & Holley, P. (2001). Human factors and environmental support in Alzheimer's disease. *Aging and Mental Health, 5*, S65-S73.
33. Charness, N. (2001). Commentary: A historical perspective on the United States-Canada connection in the psychology of aging. *Canadian Journal on Aging/la Revue canadienne du vieillissement, 20, suppl. 1*, 149-159.
34. Reingold, E. M., Charness, N., Schultetus, R. S., & Stampe, D. M. (2001). Perceptual automaticity in expert chess players: Parallel encoding of chess relations. *Psychonomic Bulletin and Review, 8*, 504-510.
35. Czaja, S. J., Sharit, J., Charness, N., Fisk, A. D., & Rogers, W. (2001). The Center for Research and Education on Aging and Technology Enhancement (CREATE): A program to enhance technology for older adults. *Gerontechnology, 1*, 50-59.
36. Charness, N., Reingold, E. M., Pomplun, M., & Stampe, D. M. (2001). The perceptual aspect of skilled performance in chess: Evidence from eye movements. *Memory and Cognition, 29*, 1146-1152.
37. Mireles, D. E., & Charness, N. (2002). Computational explorations of the influence of structured knowledge on age-related cognitive decline. *Psychology and Aging, 17*, 245-259.
38. Charness, N., Holley, P., Feddon, J., & Jastrzembski, T. (2004). Light pen use and practice minimize age and hand performance differences in pointing tasks. *Human Factors, 46*, 373-384.
39. Charness, N. & Holley, P. (2004). The new media and older adults: Usable and useful? *American Behavioral Scientist, 48*, 416-433.
40. Charness, N., Tuffiash, M., Krampe, R., Reingold, E. M., & Vasyukova, E. (2005). The role of deliberate practice in chess expertise. *Applied Cognitive Psychology, 19*, 151-165.
41. Jastrzembski, T., Charness, N., Holley, P. & Feddon, J. (2005). Input devices for web browsing: Age and hand effects. *Universal Access in the Information Society, 4*, 39-45.
42. Jastrzembski, T., Charness, N., & Vasyukova, C. (2006). Expertise and age effects on knowledge activation in chess. *Psychology and Aging, 21*, 401-405.
43. Czaja, S. J., Charness, N., Fisk, A. D., Hertzog, C., Nair, S. N., Rogers, W. A., & Sharit, J. (2006). Factors Predicting the Use of Technology: Findings from the Center for Research and Education on Aging and Technology Enhancement (CREATE). *Psychology and Aging, 21*, 333-352.
44. Charness, N. (2006). Work, older workers and technology. *Generations, 30*, 25-30.
45. Roring, R. W., Hines, F. G., & Charness, N. (2006). Age-related identification of emotions at different image sizes. *Human Factors, 48*, 675-681.
46. Roring, R. W., Hines, F. G., & Charness, N. (2007). Age differences in identifying words in synthetic speech. *Human Factors, 49*, 25-31.
47. Roring, R.W., & Charness, N. (2007). A multilevel model analysis of expertise in chess across the lifespan. *Psychology and Aging, 22*, 291-299.
48. Jastrzembski, T. S. & Charness, N. (2007). The Model Human Processor and the older adult: Parameter estimation and validation within a mobile phone task. *Journal of Experimental Psychology: Applied, 13*, 224-248
49. Jastrzembski, T., & Charness, N. (2007). What older adults can teach us about designing better ballots. *Ergonomics in Design, 15*, 6-11.
50. Charness, N. (2008). Aging and human performance. *Human Factors, 50*, 548-555.
51. Charness, N., & Tuffiash, M. (2008). The role of expertise research and human factors in capturing, explaining, and producing superior performance. *Human Factors, 50*, 427-432.
52. Weaver, S. J., Charness, N., Dijkstra, K., & Jastrzembski, T. (2008). Musculoskeletal pain prevalence in randomly sampled university employees: Age and gender effects. *Gerontechnology, 7*, 279-292.
53. Charness, N. & Boot, W. R. (2009). Aging and Information Technology Use: Potential and Barriers. *Current Directions in Psychological Science, 18*, 253-258.
54. Dijkstra, K., Charness, N., Yordon, R., & Fox, M. (2009). Changes in physiological and self-reported stress in younger and older adults after exposure to a stressful task. *Aging, Neuropsychology and Cognition, 16*, 338-356.

55. Fox, M. C., & Charness, N. (2010). How to gain eleven IQ points in ten minutes: Thinking aloud improves Raven's Matrices performance in older adults. *Aging, Neuropsychology and Cognition*, *17*, 191-204.
56. Charness, N., Dijkstra, K., Jastrzembski, T. S., Weaver, S. J., & Champion, M. (2010). Are laptop computers a health risk for an aging population? *Gerontechnology*, *9*, 415-420. doi:10.4017/gt.2010.09.03.005.00
57. Demiris, G., Charness, N., Krupinski, E., Ben-Arieh, D., Washington, K., Wu, J. & Farberow, B. (2010). The role of human factors in telehealth. *Journal of Telemedicine & E-Health*, *16* (4), 446-453. DOI: 10.1089=tmj.2009.0114.
58. Mitzner, T. L., Boron, J. B., Fausset, C. B., Adams, A. E., Charness, N. Czaja, S. J., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (2010). Older adults talk technology: Technology usage and attitudes. *Computers in Human Behavior* (2010), doi:10.1016/j.chb.2010.06.020
59. Olson, K. E., O'Brien, M., Rogers, W. A., & Charness, N. (published online 2010, 28 Sept). Diffusion of Technology for Younger and Older Adults. *Ageing International*, *36*, 123-145. DOI 10.1007/s12126-010-9077-9.
60. Charness, N. & Czaja, S. J. (2011). Raising the minimal retirement age: Psychological issues. *Public Policy & Aging Report*, *21*, 29-32.
61. Charness, N. (2012). Patterns of theorizing about chess skill – Commentary on Linhares and Freitas (2010) and Lane and Gobet (2010). *New Ideas in Psychology*, *30*, 322-324. DOI: 10.1016/j.newideapsych.2011.12.004.
62. Charness, N., Best, R., & Souders, D. (2012). Memory function and supportive technology. *Gerontechnology*, *11*, 22-34; doi:10.4017/gt.2012.11.01.006.00.
63. Moxley, J. H., Ericsson, K. A., Charness, N., & Krampe, R. T. (2012). The role of intuition and deliberative thinking in experts' superior tactical decision-making. *Cognition*. *124*, 72-78. <http://dx.doi.org/10.1016/j.cognition.2012.03.005>.
64. Boot, W. R., Champion, M., Blakely, D. P., Wright, T., Souders, D., & Charness, N. (2013). Video games as a means to reduce age-related cognitive decline: Attitudes, compliance, and effectiveness. *Frontiers in Psychology*, *4*, 1-9. DOI=10.3389/fpsyg.2013.00031.
65. Moxley, J. H., & Charness, N. (2013). Meta-analysis of age and skill effects on recalling chess positions and selecting the best move. *Psychonomic Bulletin & Review*, *20*, 1017-1022. doi:10.3758/s13423-013-0420-5
66. Charness, N., Fox, M., Papadopoulos, A., & Crump, C. (2013). Metrics for assessing the reliability of a telemedicine remote monitoring system. *Telemedicine and e-Health*, *19*, 487-492. DOI: 10.1089/tmj.2012.0143.
67. Boot, W. R., Stothart, C., & Charness, N. (2013). Improving the safety of aging road users – A Mini-Review. *Gerontology*, *60*, 90-96. DOI: 10.1159/000354212
68. Charness, N. (2014). Utilizing technology to improve older adult health. *Occupational Therapy in Health Care*, *28*, 21-30. DOI: 10.3109/07380577.2013.865859.
69. MacMahon, C. & Charness, N. (2014). Focus of attention and automaticity in handwriting. *Human Movement Science*, *34*, 57-62.
70. Mitzner, T. L., Rogers, W. A., Fisk, A. D., Boot, W. R., Charness, N., Czaja, S. J., & Sharit, J. (2014). Predicting older adults' perception about a computer system designed for seniors. *Universal Access in the Information Society*, *15*(2), 271-280. DOI 10.1007/s10209-014-0383-y.
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182. Jastrzembski, T., Charness, N., Holley, P., & Feddon, J. (2005). Aging and input devices: Voice recognition performance is slower yet more acceptable than a lightpen. *Proceedings of the Human Factors & Ergonomics Society 49th Annual Meeting, 5*, 167-171.
183. Jastrzembski, T. S., Roring, R. W., & Charness, N. H. (2006). Videoconferencing technology as environmental support for older adults. *Proceedings of the Human Factors & Ergonomics Society 50th Annual Meeting, 5*, 175-179.
184. Jastrzembski, T., & Charness, N. (2007). Error extensions to GOMS modeling: Age-related predictions of error in a mobile phone task. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting, 5*, 20-24.
185. Charness, N., Dijkstra, K., Jastrzembski, T. S., Weaver, S., & Champion, M. (2008). Monitor viewing distance for younger and older workers. *Proceedings of the Human Factors & Ergonomics Society 52nd Annual Meeting, 52*, 1614-1617.
186. Jastrzembski, T. S., Myers, C., & Charness, N. (2010) A principled account of the older adult in ACT-R: age specific model human processor extensions in a mobile phone task. *Proceedings of the Human Factors and Ergonomics Society 54nd Annual Meeting, 54*, 982-986.
187. Charness, N. (2010). Computer workstation ergonomics for an aging workforce. *Third International Conference of Applied Human Factors and Ergonomics*, Miami, Florida, USA. Published as Charness, N. (2010). Computer workstation ergonomics for an aging workforce. In V. Rice (Ed.) *Advances in Understanding Human Performance: Neuroergonomics, Human Factors Design, and Special Populations* (pp. 818-823). CRC Press.
<http://www.crcnetbase.com/doi/abs/10.1201/EBK1439835012-c84>
188. Best, R., Souders, D. J., Charness, N., Mitzner, T. L., & Rogers, W. A. (2015). The role of health status in older adults' perceptions of the usefulness of eHealth technology. In J. Zhou & G. Salvendy (Eds.)

- Human Aspects of IT for the Aged Population: Design for Everyday Living. First International Conference, ITAP 2015 held as Part of HCI International 2015, Los Angeles, CA, USA August 2-7, 2015, Proceedings, Part II, P. 3-14.*
189. Mitzner, T. L., Charness, N., & Rogers, W. A. (2015). Perceptions of computer system usefulness: Insights for design form experienced older adults. In J. Zhou & G. Salvendy (Eds.) *Human Aspects of IT for the Aged Population: Design for Everyday Living. First International Conference, ITAP 2015 held as Part of HCI International 2015, Los Angeles, CA, USA August 2-7, 2015, Proceedings, Part II, P. 262-272.*
 190. He, Z., Charness, N., Bian, J., & Hogan, W. R. (2016) Assessing the Comorbidity Gap between Clinical Studies and Elderly Patient Populations. Conference Proceedings, 2016 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), pp 136-139. DOI 10.1109/BHI.2016.7455853. Las Vegas, NV: Feb. 2016.
 191. Charness, N., Dunlop, M., Munteanu, C., Nicol, E., Oulasvirta, A., Ren, X., Sarcar, S., & Silpaswanchai, C., Rethinking mobile interfaces for older adults. CHI EA '16 Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems, Pages 1131-1134. Doi [10.1145/2851581.2886431](https://doi.org/10.1145/2851581.2886431)
 192. Boot, W. R., Barajas, K., Mitchum, A., Stothart, C., & Charness, N. (2016). Ensuring the safety and accessibility of transportation for an aging population. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P. 386-394.* Springer.
 193. Roque, N. A., Boot, W. R., Charness, N., Barajas, K., Dirghalli, J., & Mitchum, A. (2016). The flashing right turn signal with pedestrian indication: A human factors study to assess driver comprehension. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P. 417-427.* Springer.
 194. Souders, D., & Charness, N. (2016). Challenges of older drivers' adoption of advanced driver assistance systems and autonomous vehicles. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P. 428-440.* Springer.
 195. Stothart, C., Boot, W. R., Simons, D., Charness, N., & Wright, T. (2016). Age effects on inattentive blindness: Implications for driving. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P. 441-448.* Springer.
 196. Boot, W. R., Sharit, J., Czaja, S. J., Charness, N., & Rogers, W. A. (2016). Exploring the Relationship Between Computer Proficiency and Computer Use Over Time in the PRISM Trial. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P.300-307.* Springer.
 197. Boot, W. R., Souders, D., Charness, N., Blocker, K., Roque, N., & Vitale, T. (2016.) The gamification of cognitive training: Older adults' perceptions of and attitudes toward digital game-based interventions. In J. Zhou & Salvendy, G. (Eds). *Human aspects of IT for the aged populations: Design for aging. Second International Conference, ITAP 2016, Held as Part of HCI International 2016, Toronto, ON, Canada, July 17–22, 2016, Proceedings, Part I, P. 290-300.* Springer. (Best paper award.)
 198. Sarcar, S., Munteanu, C., Jokinen, J. P. P., Oulasvirta, A., Slipaswanchai, C., Charness, N., Dunlop, M., & Ren, X. (2017). Designing mobile interactions for an ageing population. CHI '17 Extended Abstracts, P. 506-509. May 06-11, 2017, Denver, CO, USA ACM 978-1-4503-4656-6, 6/17/05. <http://dx.doi.org/10.1145/3027063.3027074>
 199. Sarcar, S., Munteanu, C., Jokinen, J., Oulasvirta, A., Charness, N., Dunlop, M., & Ren, X. (2018). Designing Interactions for the Ageing Populations. CHI'18 Extended Abstracts, April 21–26, 2018, Montreal, QC, Canada. ACM ISBN 978-1-4503-5621-3/18/04. <https://doi.org/10.1145/3170427.3170607>

Technical Reports

1. Czaja, S. J., Charness, N., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (2006). *CREATE Common Core Battery Measures* (CREATE-2006-01).
2. Czaja, S. J., Charness, N., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (2006). *Demographic and Background Questionnaire* (CREATE-2006-02).
3. Czaja, S. J., Charness, N., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (2006). *Computer and Technology Experience Questionnaire* (CREATE-2006-01).
4. Mitzner, T.K., Adams, A.E., Fausset, C.B., Boron, J.B., Charness, N., Czaja, S.J., Dijkstra, K., Fisk, A.D., Rogers, W.A., & Sharit, J., (2008). *Focus group script and coding instructions for the CREATE cross-site focus group study of technology use* (HFA-TR-0801). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.
5. Charness, N., Champion, M., Mitchum, A., & Fox, M. (2009). Final Report: Intersection and Pedestrian Safety Research BD543-17. http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT_BD543_17_rpt.pdf
6. Charness, N., Champion, M., Cowing, B., Mitchum, A., & Stothart, C. (2011). Final Report: Aging Driver and Pedestrian Safety: Human Factors Studies BDK83 977-09. Technical report submitted to the Florida Department of Transportation. http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT_BDK83_977-09_rpt.pdf
7. Charness, N., Boot, W., Mitchum, A., Stothart, C., & Lupton, H. (2012). Final Report: Aging Driver and Pedestrian Safety: Parking Lot Hazards Study BDK83 977-12. Technical report submitted to Florida Department of Transportation: http://ntl.bts.gov/lib/45000/45500/45562/FDOT_BDK83_977-12_rpt.pdf
8. Boot, W. R., Charness, N., Stothart, C., Fox, M., Mitchum, A., Lupton, H., & Landbeck, R. (2013). Final Report: Aging road user, bicyclist and pedestrian safety: Effective bicycling signs and preventing left-turn crashes BDK83 977-15. Technical report to Florida Department of Transportation http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT-BDK83-977-15-rpt.pdf
9. Boot, W., R., Charness, N., Mitchum, A., Landbeck, R., & Stothart, C. (2014). Final report: Aging road user studies of intersection safety. BDV30 TWO 977-04. Technical report submitted to Florida Department of Transportation: <http://ntl.bts.gov/lib/54000/54100/54145/FDOT-BDV30-977-04-rpt.pdf>
10. Boot, W., R., Charness, N., Roque, N., Barajas, K., Dirghalli, J., & Mitchum, A. (2015). Final Report: The Flashing Right Turn Signal with Pedestrian Indication: Human Factors Studies to Understand the Potential of a New Signal to Increase Awareness of and Attention to Crossing Pedestrians. BDV30-977-13. Technical report submitted to Florida Department of Transportation: http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT-BDV30-977-13-rpt.pdf
11. Duncan, M., Charness, N., Chapin, T., Horner, M., Stevens, L., Richard, A., Souders, D., Crute, J., Riemondy, A. & Morgan, D. (2015). Enhanced mobility for aging populations using automated vehicles. BDV30 977-11. Technical report submitted to Florida Department of Transportation. http://www.fdot.gov/research/Completed_Proj/Summary_PL/FDOT-BDV30-977-11-rpt.pdf
12. Ben-Arieh, D., Charness, N., Duckett, K., Krupinski, E., Leistner, G., & Strawderman, L. (2016). A Concise Guide for Telemedicine Practitioners: Human Factors Quick Guide Eye Contact. An American Telemedicine Association Human Factors SIG publication in collaboration with the Home Telehealth and Remote Monitoring SIG. <https://higherlogicdownload.s3-external-1.amazonaws.com/AMERICANTELEMED/Eye%20Contact%20Quick%20Guide.pdf?AWSAccessKeyId=AKIAJH5D4I4FWRALBOUA&Expires=1466110688&Signature=5%2FbKa8sN8HNwS2mLgsNBhAd9kU%3D>
13. Charness, N., Boot, W., Kaschak, M., Arpan, L., Cortese, J., Clayton, R., Roque, N., Paedae, B., & Barajas, K. (2017). BDV30 977-15. Final Report to Florida Department of Transportation. Human factors guidelines to develop educational tip cards for aging road users. http://www.fdot.gov/research/completed_proj/summary_TE/FDOT-BDV30-977-15-rpt.pdf

Recent Conference Papers and Colloquiums

238. <http://cc.callinfo.com/play?id=c8a4mr>

356. Charness, N. (2018). Invited Speaker “Can Acquired Skill & Technology Mitigate Age-related Declines in Learning Rate?” Conference on Current and Emerging Trends in Aging and Work, Miami, January.
357. Charness, N. (2018). “The promise and limits of technology to promote successful longevity”. Optimal Aging Colloquium Series. Psychology Department, Georgia Institute of Technology. Atlanta, GA, Feb.
358. Charness, N. (2018). Quantifying the Gerontological Imagination. In K. Ferraro (organizer). Author meets Critics Symposium on the Gerontological Imagination. Association for Gerontology in Higher Education Meetings. Atlanta, March.
359. Charness, N. (2018). Everything you need to know about aging but were afraid to ask. (Co-Organizer) Florida State University InnoVenture Weekend, Tallahassee, April.
360. Charness, N., Boot, W., Czaja, S., Sharit, J., Rogers, W., Fisk, A. D., & Mitzner, T. (2018). Designing technology for older adults: The PRISM Clinical Field Trial. In W. R. Boot (Organizer) Designing Technology to Improve the Lives of Older Adults at Risk for Social Isolation: Findings from the PRISM Randomized Control Trial. American Psychological Association’s Technology, Mind & Society Conference, Washington, DC, May.
361. Czaja, S. J., Boot, W. R., Charness, N., Rogers, W. A., & Sharit, J. (2018). The PRISM Trial and Primary Outcomes. In W. R. Boot (Organizer) Designing Technology to Improve the Lives of Older Adults at Risk for Social Isolation: Findings from the PRISM Randomized Control Trial. American Psychological Association’s Technology, Mind, Society Conference, Washington, DC, May.
362. Rogers, W. A., Mitzner, T. L., Savla, J., Czaja, S. J., Charness, N., Boot, W., & Sharit, J. (2018). PRISM Use and Predictors of Long-term PRISM Use. In W. R. Boot (Organizer) Designing Technology to Improve the Lives of Older Adults at Risk for Social Isolation: Findings from the PRISM Randomized Control Trial. American Psychological Association’s Technology, Mind, Society Conference, Washington, DC, May.
363. Boot, W.R., Charness, N., Czaja, S. J., Roger, W. A., & Sharit, J. Leisure activity and the PRISM System. In W. R. Boot (Organizer) Designing Technology to Improve the Lives of Older Adults at Risk for Social Isolation: Findings from the PRISM Randomized Control Trial. American Psychological Association’s Technology, Mind, Society Conference, Washington, DC, May
364. Charness, N., Souders, D., Roque, N., & Pham, H. (2018). Do Advanced Driver Assistance Systems (ADAS) Improve Older Driver Performance? Speaker in A. Yazici & E. Ozguven (Organizers) “Smart and Connected Communities (S&CC) and Aging Population”, NSF Research Coordination Network Workshop, Stony Brook University, May.
365. Charness, N. (2018). (Co-organizer). Designing Interactions for the Ageing Populations. CHI'18 Workshop, Montreal, QC, Canada, April.
366. Charness, N. (2018). Keynote Address: “From Satisficing to Optimizing: The Future of Cognitive Aging.” Cognitive Aging Conference, Atlanta, May.
367. Charness, N. (2018). Convener for Symposium “Use of Gerontechnology to Support “Successful Aging”. St. Petersburg, FL, May.

Consultant Positions

- 1992-1994: Battelle-Seattle's Contract on In Vehicle Highway Systems/Advanced Traffic Information Systems from National Highway Traffic Safety Association.
- 1992-1995: Mitzi Johnson's National Institute on Aging grant on Age and Decision-Making.
- 1994: Human Factors North, Contract on "A Study Of The Effect Of Human Factors On Personal Mobility".
- 1998: Ohio Board of Regents: Viability of Psychology programs at the University of Akron.
- 2000: Rensselaer Polytechnic Institute: Viability of a program in Philosophy, Psychology and Cognitive Science.
- 2000: Expert Witness in Court Case for age effects on learning computer software, LaRosa vs. DEP, Judge Terry Lewis' Court, Tallahassee, Florida, Oct. 6.
- 2001: 3M Lead User Telemedicine Workshop. St. Paul, MN, July 19-21.
- 2001-2003: National Academies Committee on the Health and Safety Needs of Older Workers, Washington: DC.
- 2003: Appointment to the Governor’s Florida At-Risk Drivers Committee.

- 2004-2005: Consultant to Lili Sahakyan & Peter Delaney's National Institute on Aging R03 grant.
- 2005: Consultant to AARP report on "Older Worker Training: What We Know and Don't Know".
- 2005+: Consultant to AFrame Digital, LLC, US, concerning human factors, age, and sensor systems (Scientific Advisory Board member).
- 2006-2009: Consultant to EasyUse/Commino, Israel, concerning software design for older adults (Scientific Advisory Board member).
- 2007: Consultant to Gordon DeFries about age and technology use concerning the Administration on Aging's plans to revise their locator service.
- 2009-2010: Consultant to National Research Council committee on the Role of Human Factors in Home Healthcare.
- 2010: Site visit panelist to Beckman Institute, UIUC, to evaluate the Human Computer Intelligent Interaction research program, May 5-7.
- 2009-2013: NSF site visit panelist evaluating an Engineering Research Center on Quality of Life Technology, Pittsburgh, PA.
- 2011: Consultant for NIA grant 1R01AG041284 – 01 to Dr. Bo Xie, University of Maryland, University of Texas, Austin.
- 2011: Consultant for IMLS grant (Project ALFA) to Dr. Laurie Bonnici, University of Alabama, Tuscaloosa.
- 2013-2014: Consultant to NIA SBIR Grant for Cameron Camp, Director of Research, Center for Applied Research in Dementia, Solon, Ohio.
- 2015: Panelist, Agency for Health Research & Quality (AHRQ) Special Emphasis Panel P30 grant review, July 22-23.
- 2015: Site visit panelist to Beckman Institute, UIUC, to conduct a review of the Biological Intelligence, Human Computer Intelligent Interaction Main Research Themes, Oct. 22-23.
- 2017: National Science Foundation Panel Reviewer.
- 2017: External Reviewer for Center for Aging and Translational Research at UW-Milwaukee.
- 2017: Issue specialist for AARP's Global Council on Brain Health. Global Council on Brain Health "Engage Your Brain: GCBH Recommendations on Cognitively Stimulating Activities." Available at: www.GlobalCouncilOnBrainHealth.org DOI: <https://doi.org/10.26419/pia.00001.001>
- 2018. External Reviewer for Evaluation of the School of Psychology, Georgia Institute of Technology, April.

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