

,

---

# Identificación en el cambio del poder de negociación en agente libres de la MLB - Estadísticas Descriptivas.

---

Maestría en Economía  
Centro de Investigación y Docencias Económicas.

Antonio Huerta Montellano



Supervisada por Dr. Sonia Di Giannatale

## Resumen

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

# Índice

<b>Apéndice</b>	<b>VI</b>
<b>A. Estadísticas descriptivas</b>	<b>VI</b>
A.1. Diagramas de caja . . . . .	VI
A.1.1. Estadísticas deportivas acumuladas - Bateadores . . . . .	VI
A.1.2. Estadísticas deportivas acumuladas - Filderos . . . . .	VIII
A.1.3. Estadísticas deportivas por juego - Bateadores . . . . .	XI
A.1.4. Estadísticas deportivas por juego - Filderos . . . . .	XII
A.1.5. Estadísticas deportivas por cada 10 juegos - Bateadores . . . . .	XV
A.1.6. Estadísticas deportivas por cada 10 juegos - Filderos . . . . .	XVII
A.1.7. Datos contractuales - Bateadores . . . . .	XIX
A.1.8. Datos contractuales - Fielder . . . . .	XX
A.1.9. Datos generales - Bateadores . . . . .	XX
A.1.10. Datos generales - Feilders . . . . .	XXI
A.2. Diagramas de densidad . . . . .	XXII
A.2.1. Estadísticas deportivas acumuladas - Bateadores . . . . .	XXII
A.2.2. Estadísticas deportivas acumuladas - Filderos . . . . .	XXVI
A.2.3. Estadísticas deportivas promediadas anualmente - Bateadores . . .	XXXII
A.2.4. Estadísticas deportivas promediadas anualmente - Filderos . . . .	XXXVI
A.2.5. Estadísticas deportivas por juego - Bateadores . . . . .	XLI
A.2.6. Estadísticas deportivas por juego - Filderos . . . . .	XLV
A.2.7. Estadísticas deportivas por juego - Bateadores . . . . .	L
A.2.8. Estadísticas deportivas por cada 10 juegos - Filderos . . . . .	LIII
A.2.9. Datos contactuales - Hitters . . . . .	LIX
A.2.10. Datos contactuales - Fielders . . . . .	LX
A.2.11. Datos generales - Bateadores . . . . .	LXI
A.2.12. Datos generales - Fielders . . . . .	LXII
A.3. Series de tiempo . . . . .	LXIV
A.3.1. Estadísticas deportivas acumuladas - Bateadores . . . . .	LXIV
A.3.2. Estadísticas deportivas acumuladas - Filderos . . . . .	LXVIII
A.3.3. Estadísticas deportivas por juego - Bateadores . . . . .	LXXIV
A.3.4. Estadísticas deportivas por juego - Filderos . . . . .	LXXVIII
A.3.5. Estadísticas deportivas por cada 10 juegos - Bateadores . . . . .	LXXXIII
A.3.6. Estadísticas deportivas por cada 10 juegos - Filderos . . . . .	LXXXVI
A.3.7. Salarios - Bateadores . . . . .	XCII
A.3.8. Salarios - Fielders . . . . .	XCII
<b>B. Resultados de las regresiones</b>	<b>XCII</b>
<b>C. Estimaciones directas</b>	<b>XCII</b>

## Índice de figuras

## Índice de cuadros

31. Bateadores: Modelo Pooling . . . . .	XCIII
------------------------------------------	-------

# Apéndice

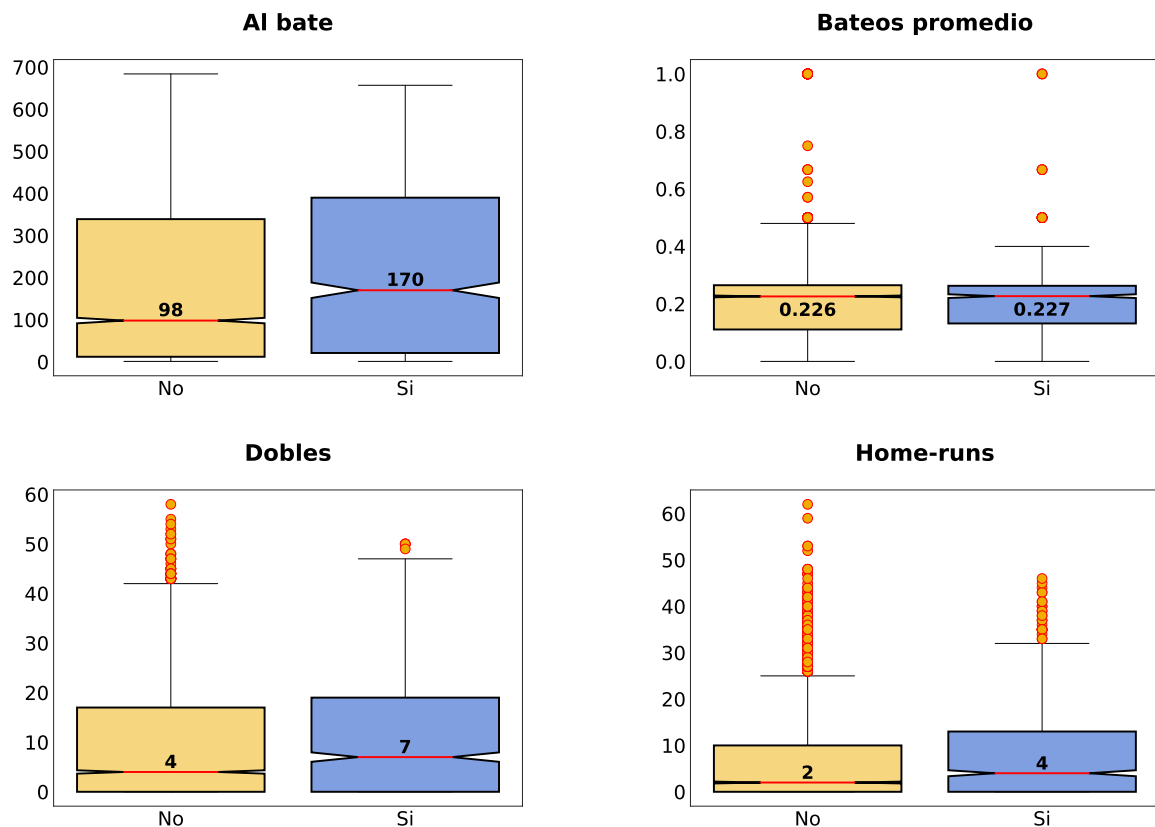
El propósito de abordar la terminología y reglas que rigen un partido de béisbol en este apéndice es proporcionar al lector una base con la cual pueda entender mejor el análisis, decisiones y conclusiones que se hacen a lo largo de este trabajo. Sin embargo, tampoco se explicarán términos que no sean considerados útiles para estos propósitos.

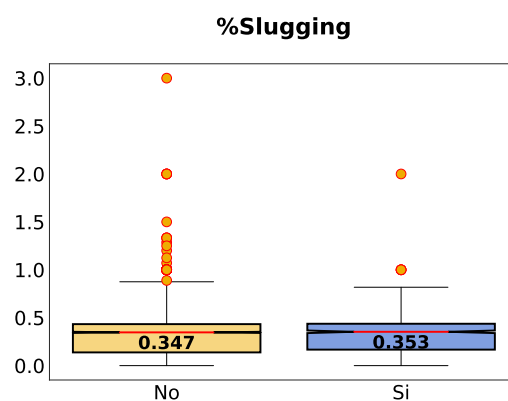
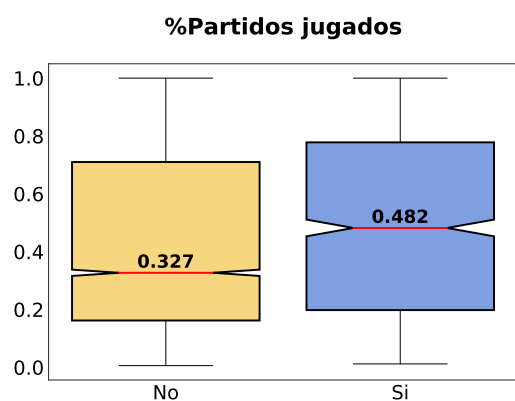
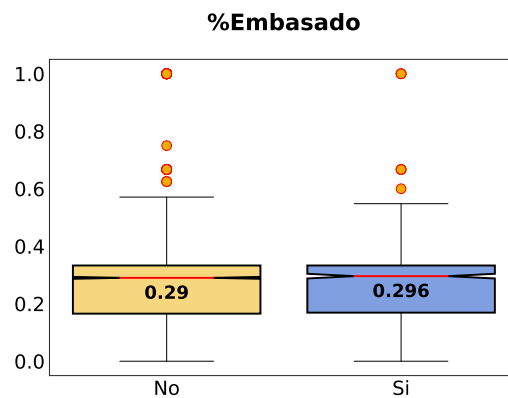
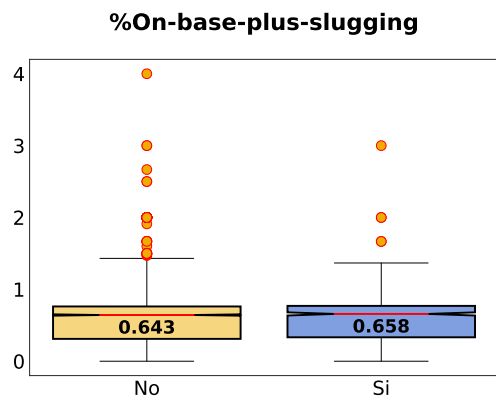
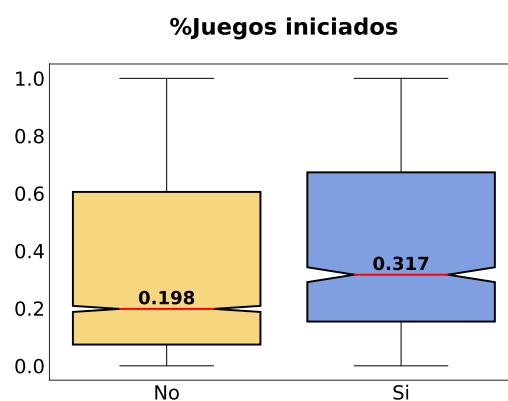
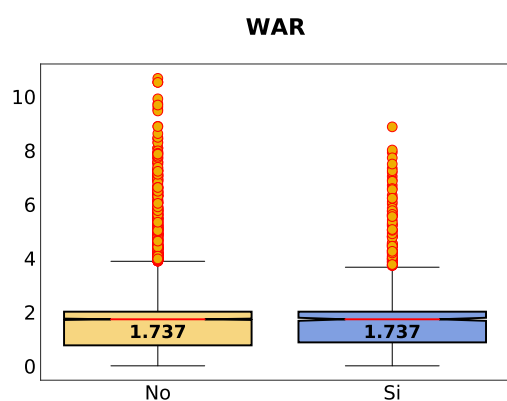
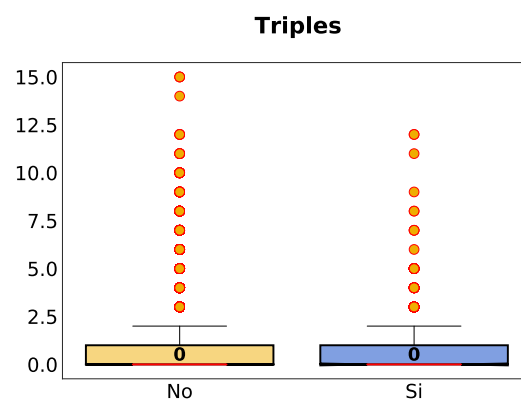
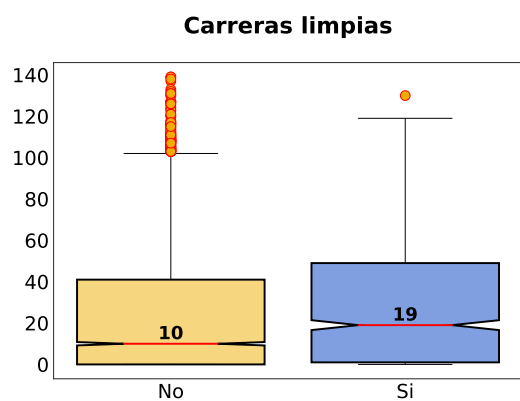
## A. Estadísticas descriptivas

### A.1. Diagramas de caja

Comparación con diagramas de caja entre los jugadores que son agentes libres (*Si*) y los no-agentes libres (*No*) con respecto a las estadísticas deportivas, salarios y datos generales. Se tomaron los promedios a lo largo de todos los años que abarca la base de datos.

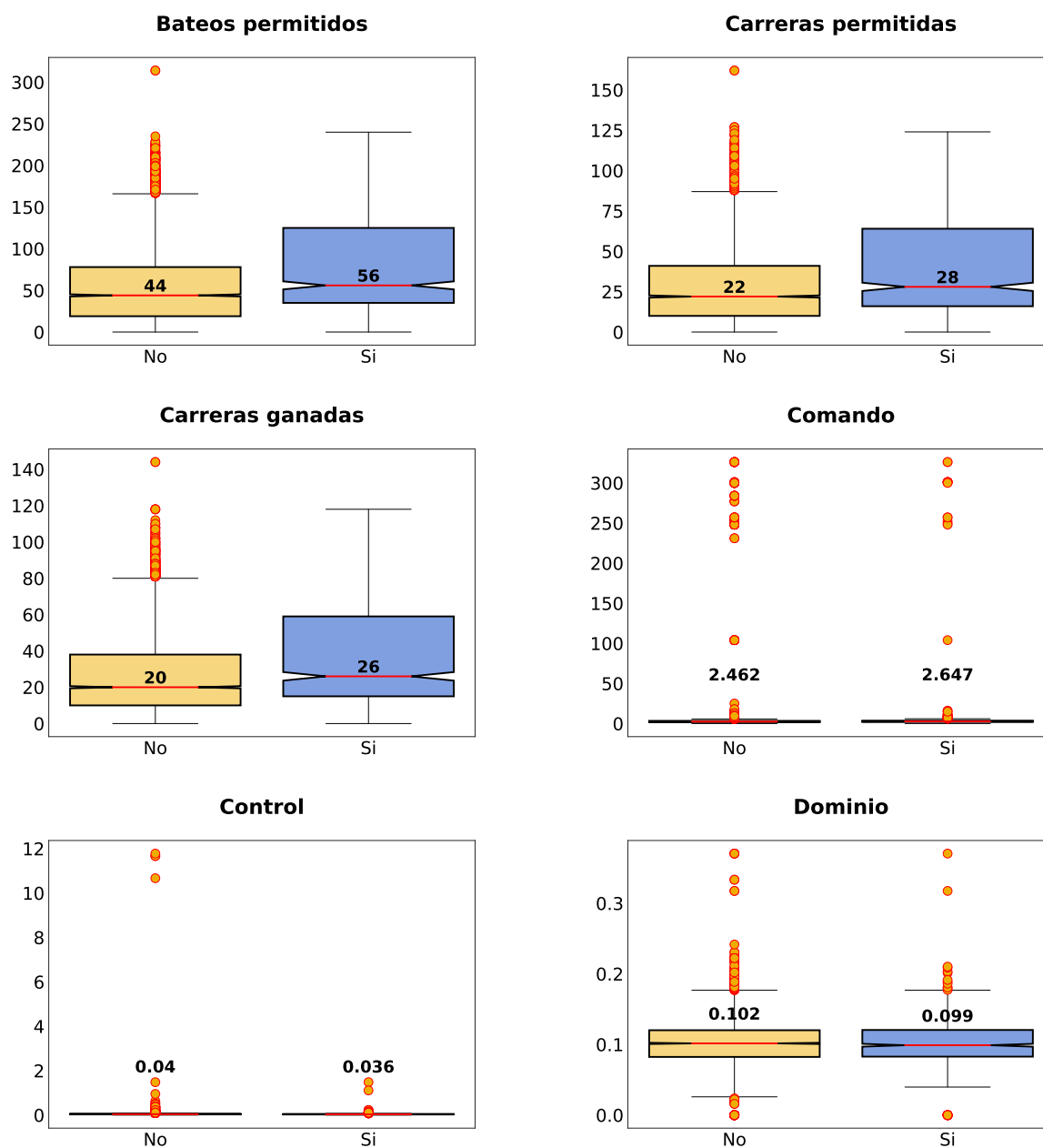
#### A.1.1. Estadísticas deportivas acumuladas - Bateadores

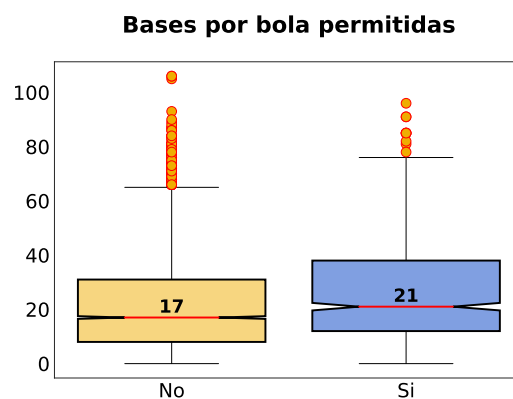
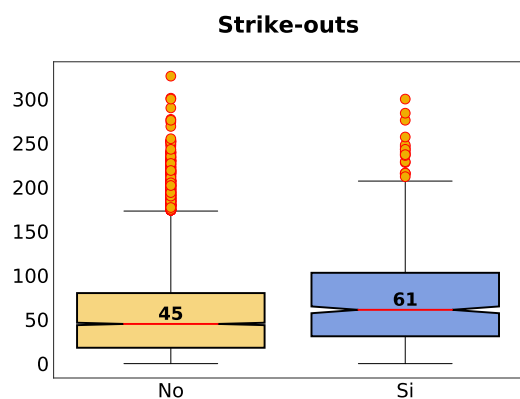
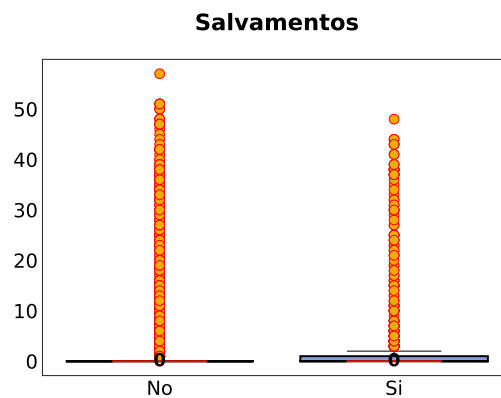
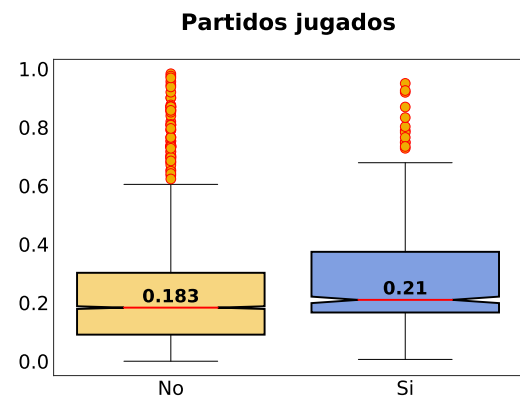
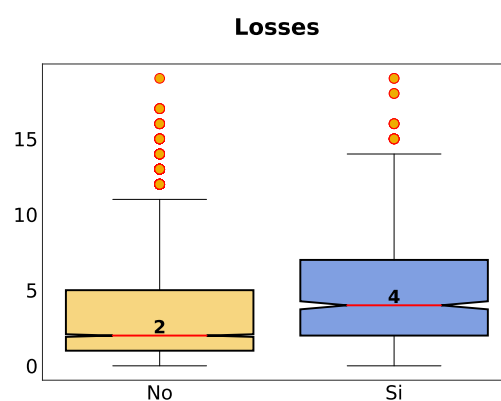
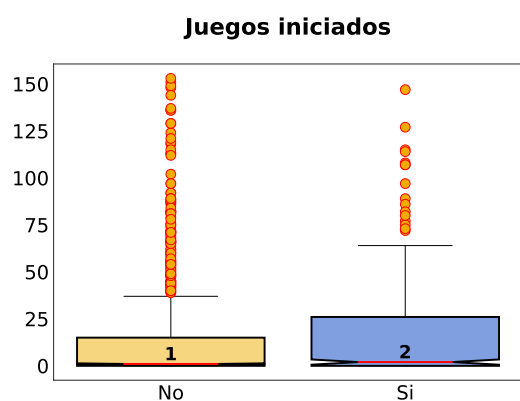
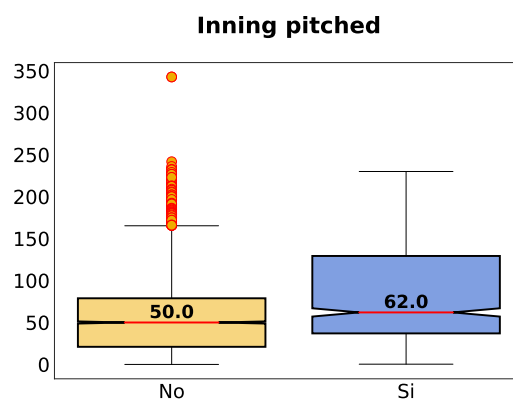
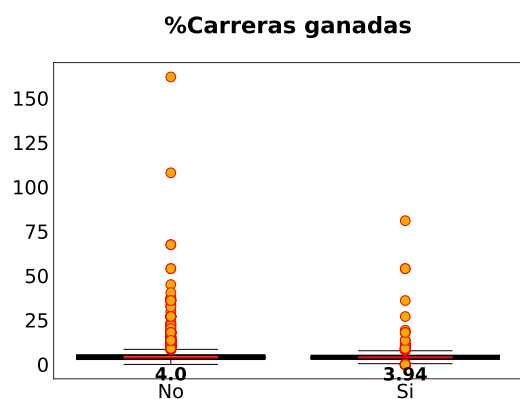


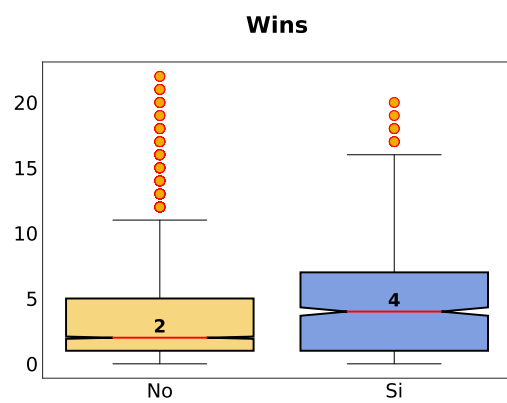
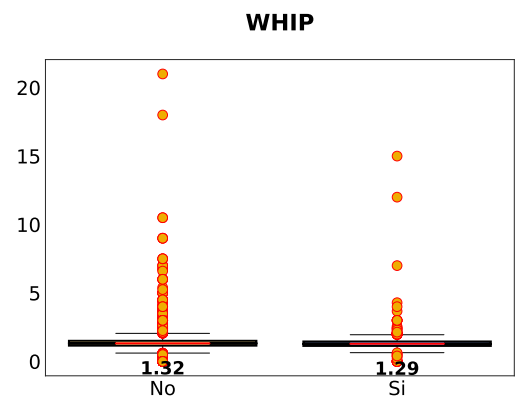
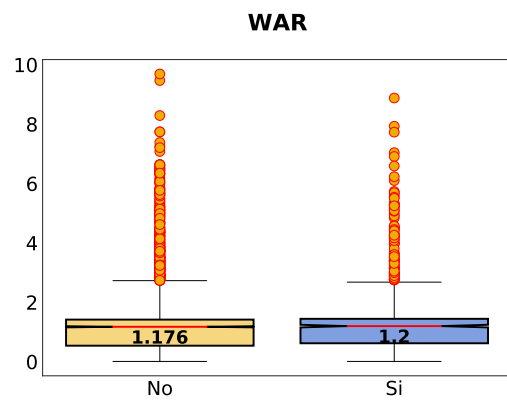




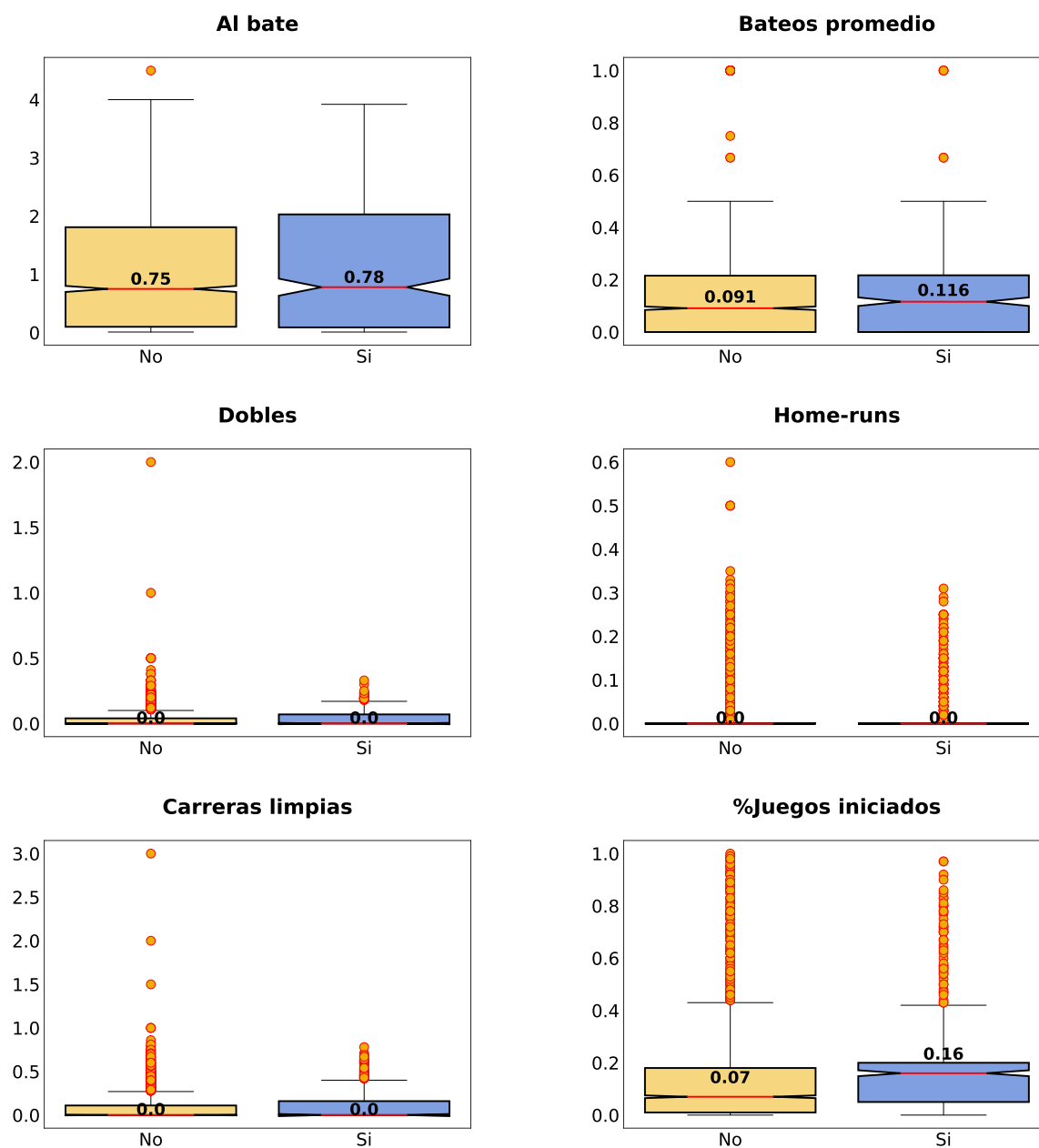
### A.1.2. Estadísticas deportivas acumuladas - Filderos

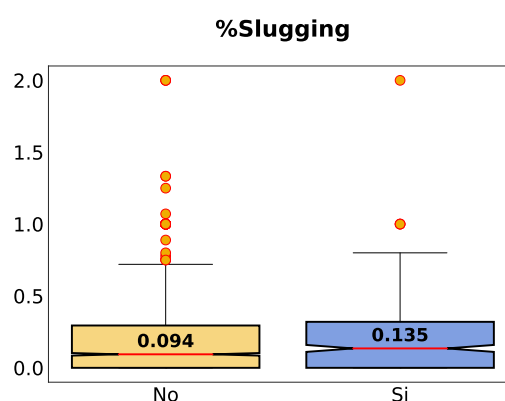
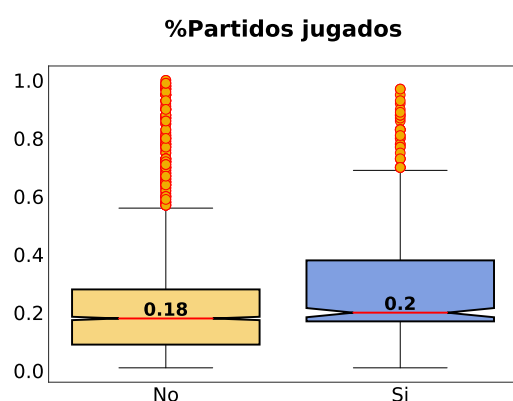
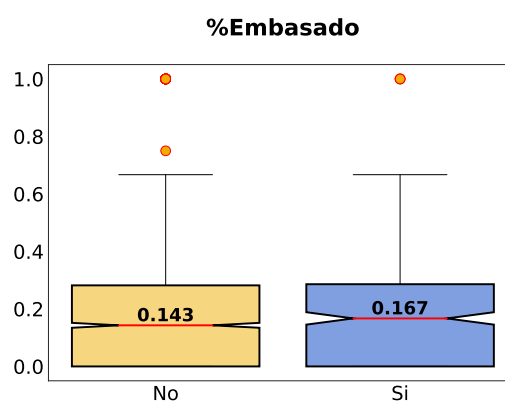
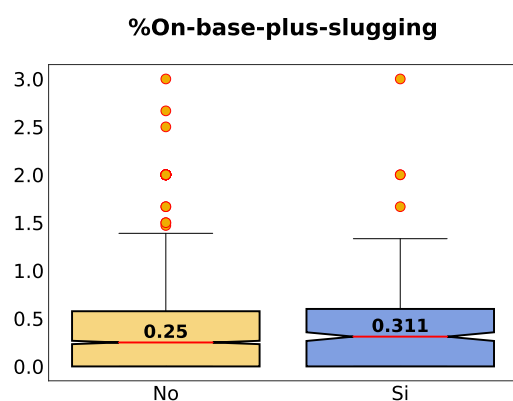




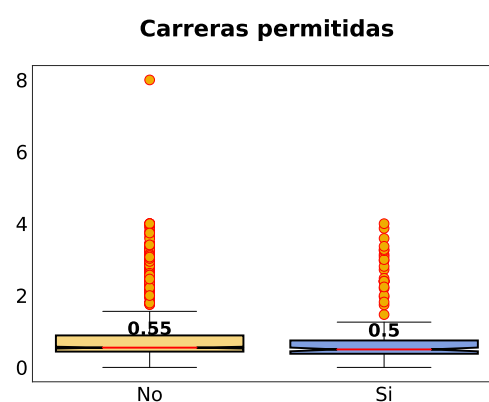
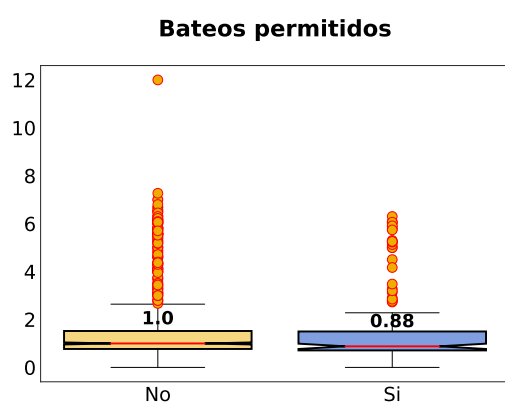


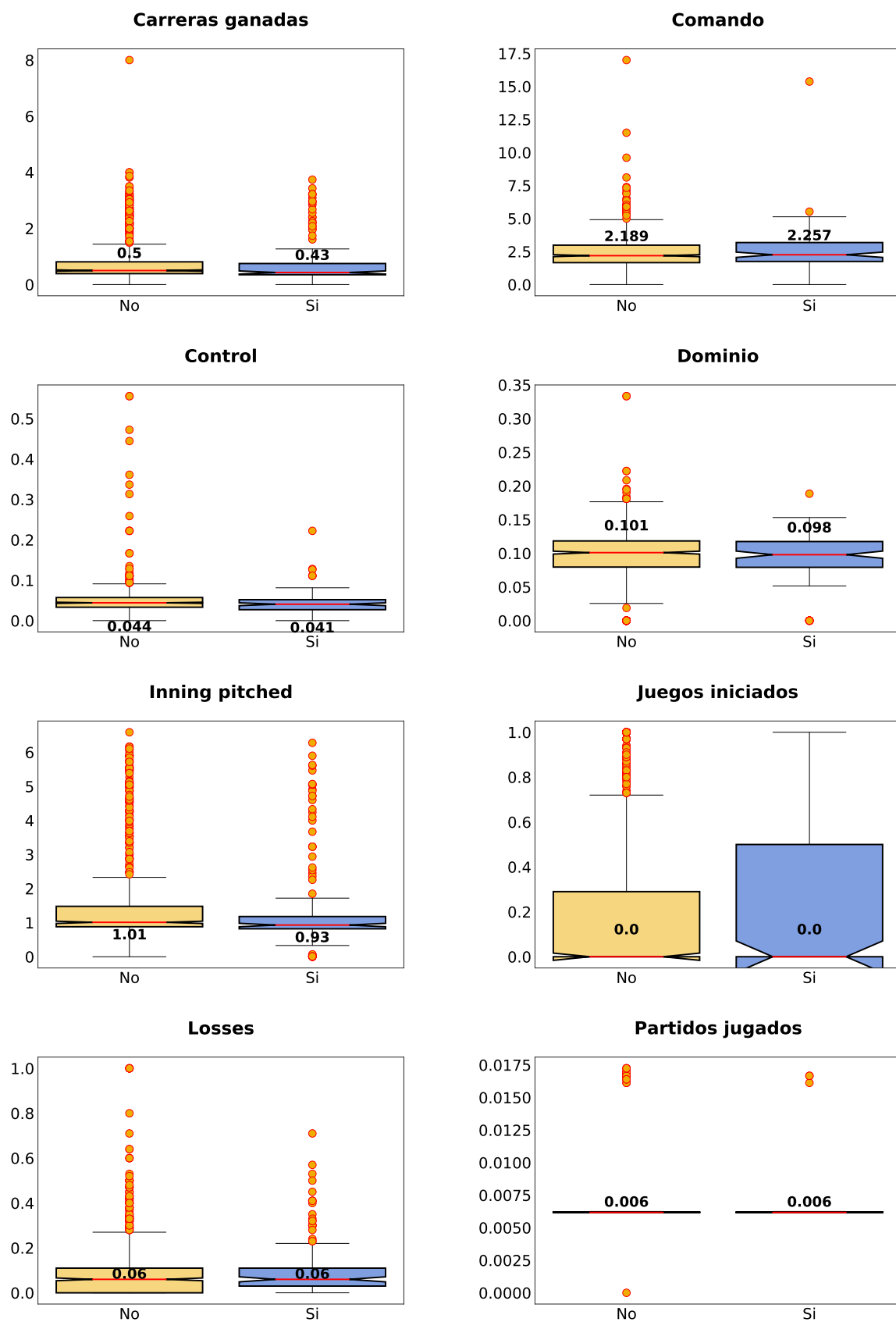
### A.1.3. Estadísticas deportivas por juego - Bateadores

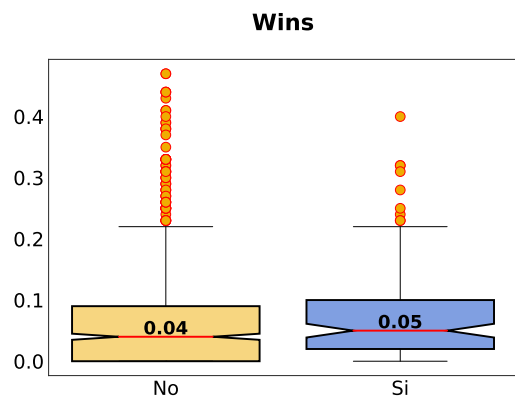
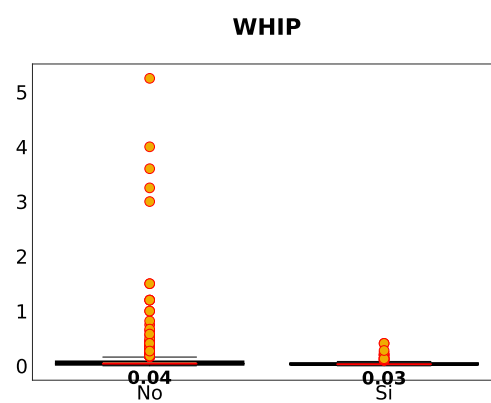
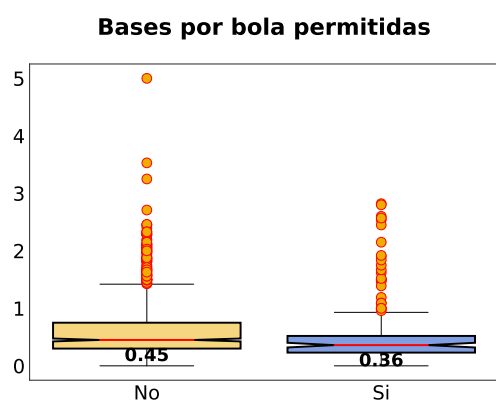
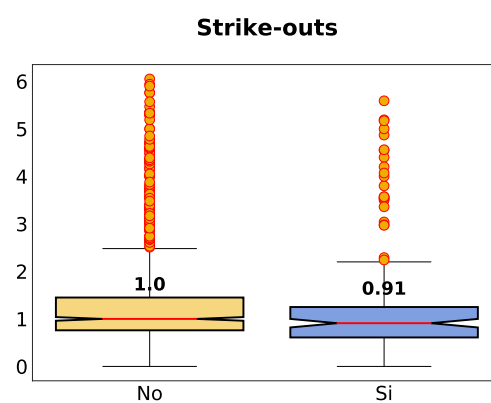
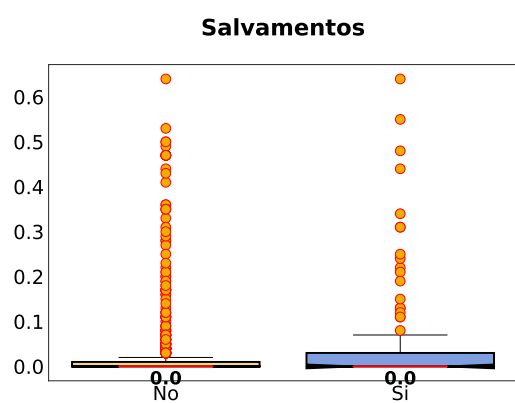




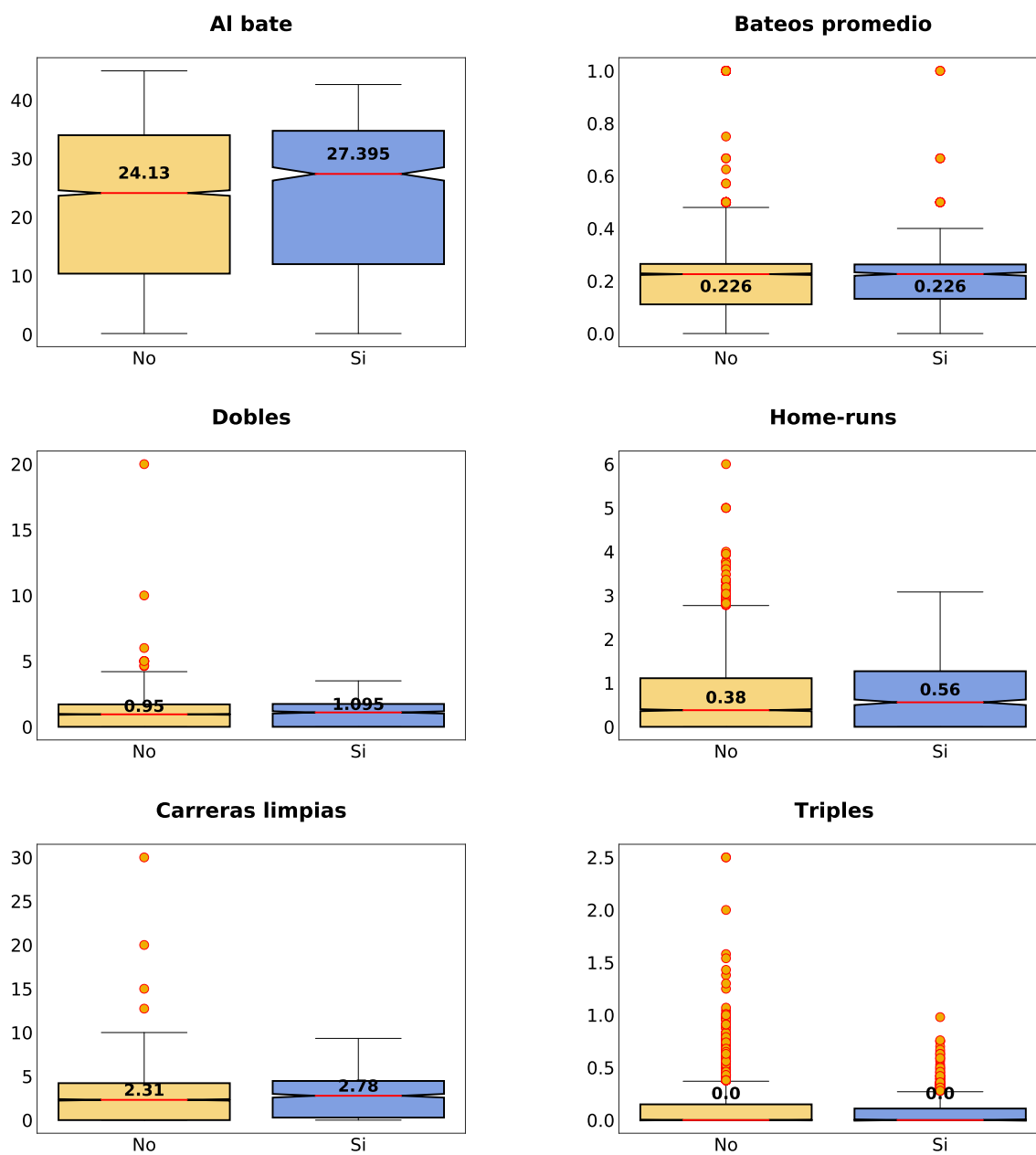
#### A.1.4. Estadísticas deportivas por juego - Filderos



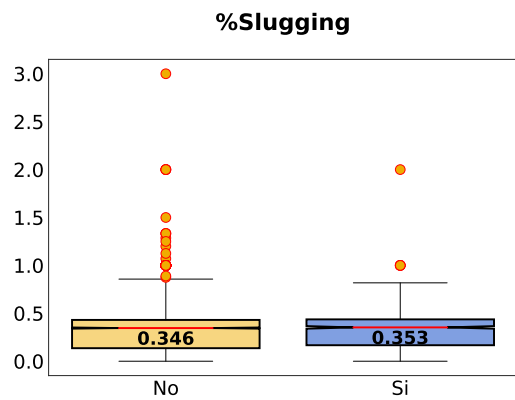
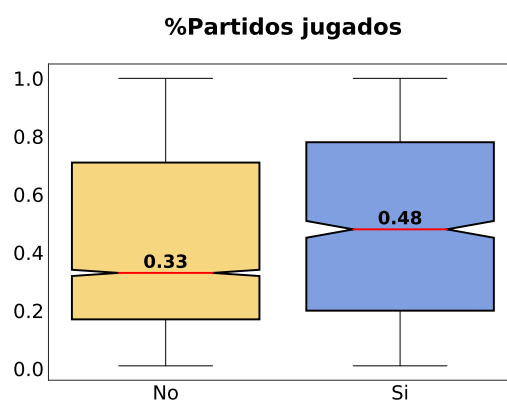
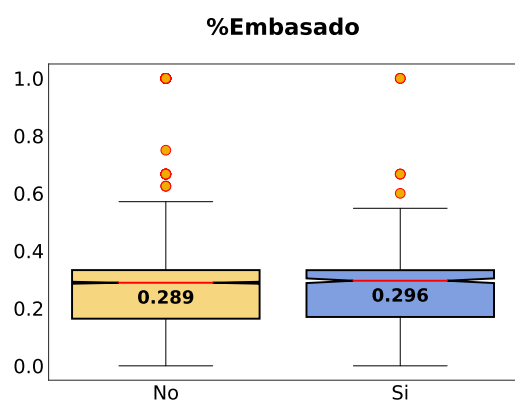
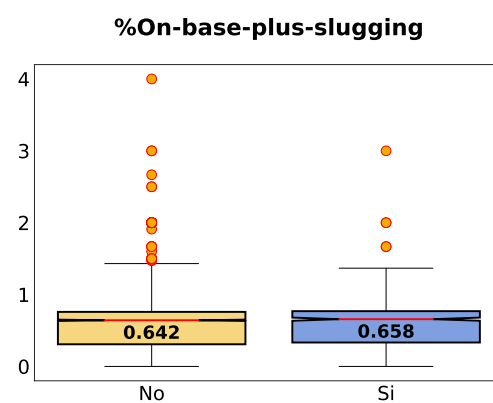
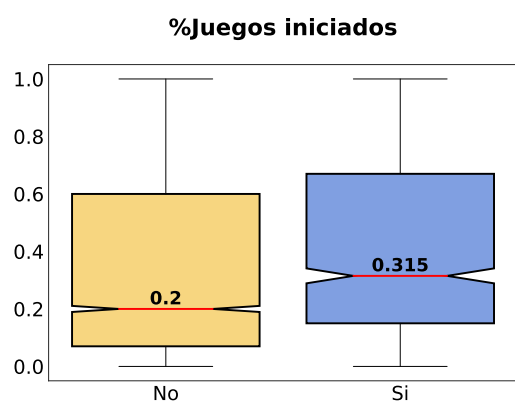




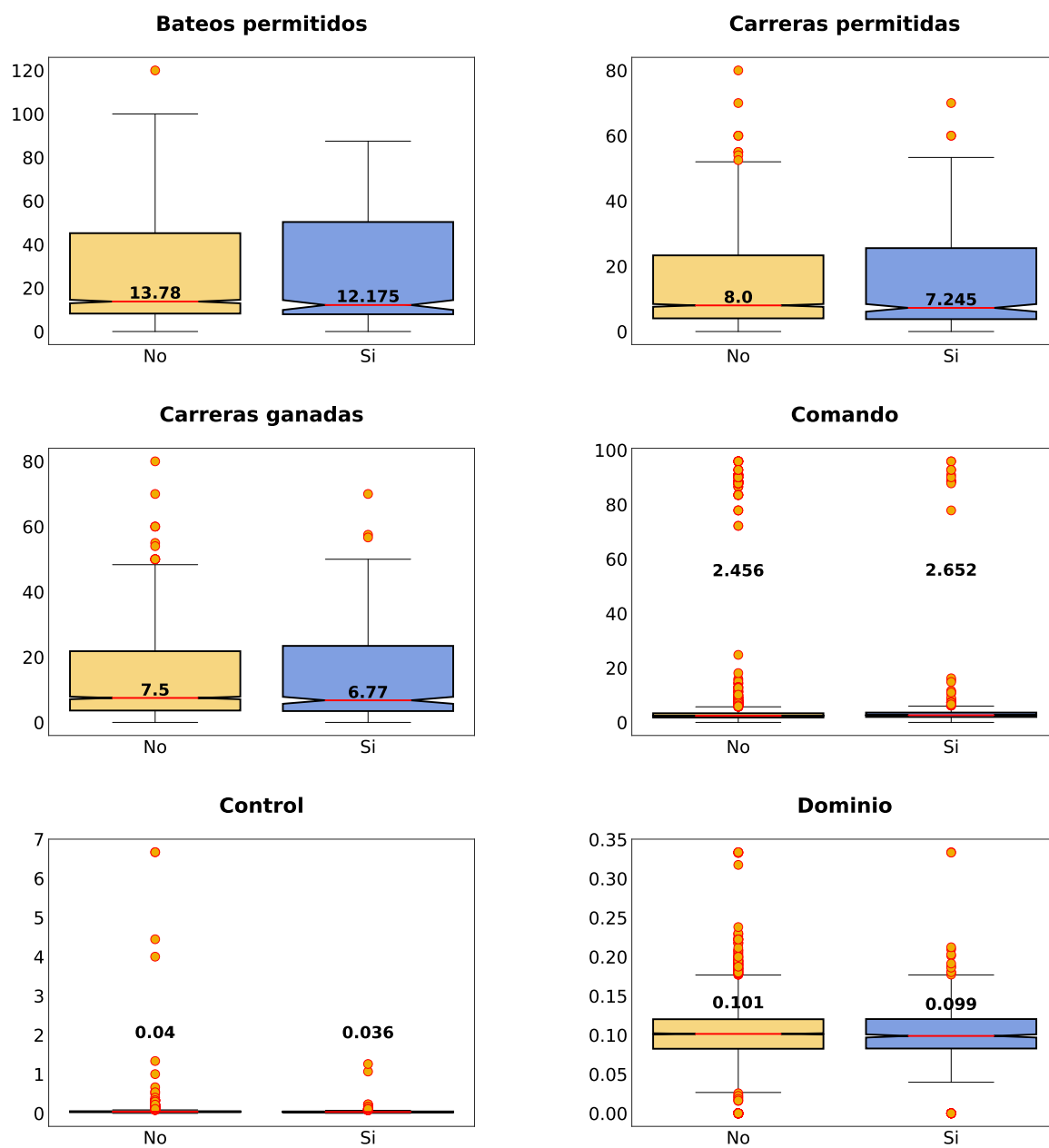
### A.1.5. Estadísticas deportivas por cada 10 juegos - Bateadores



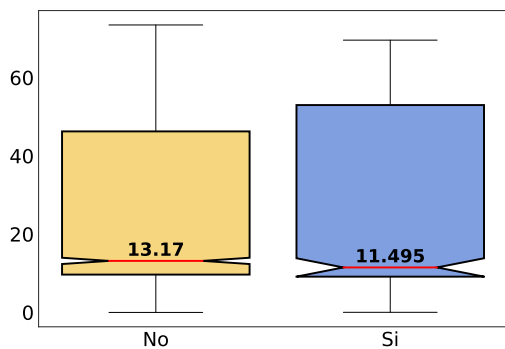




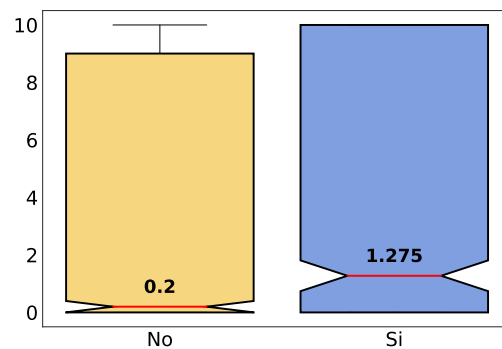
### A.1.6. Estadísticas deportivas por cada 10 juegos - Filderos



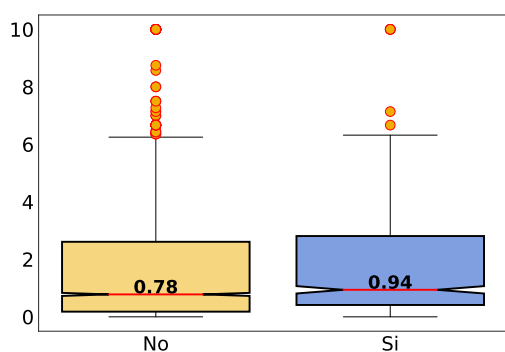
**Inning pitched**



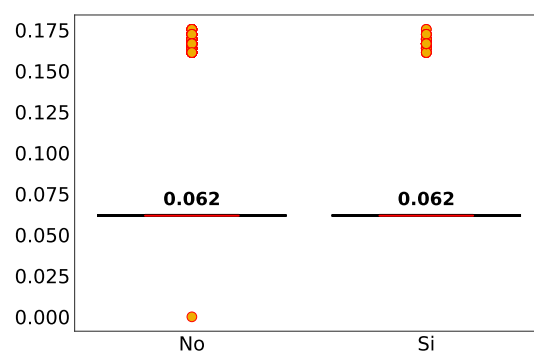
**Juegos iniciados**



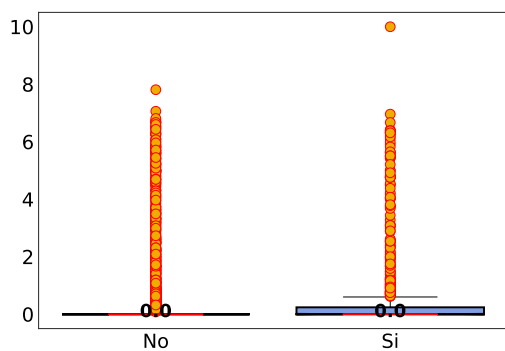
**Losses**



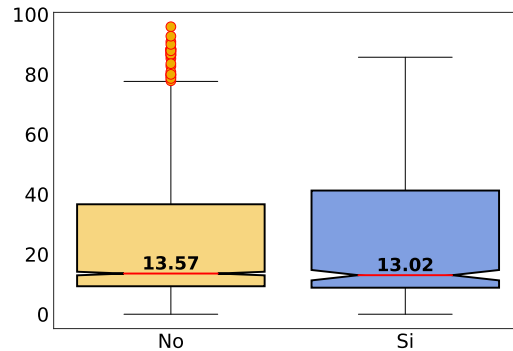
**Partidos jugados**



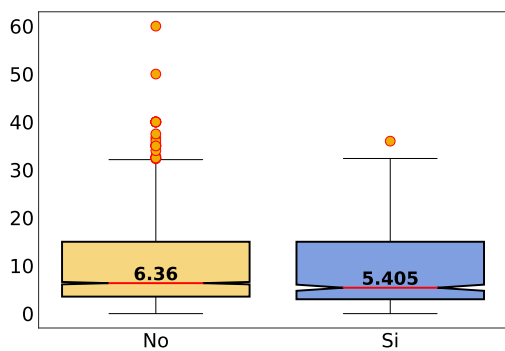
**Salvamentos**



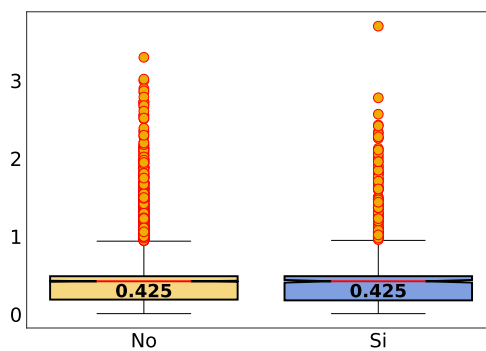
**Strike-outs**

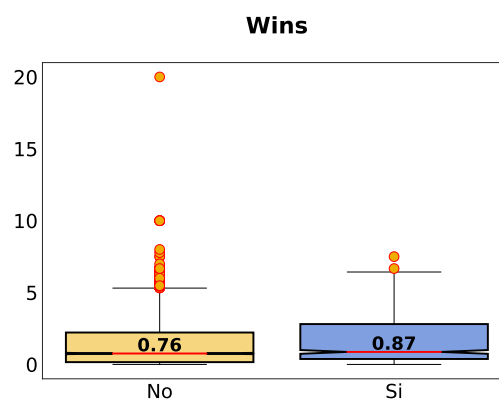
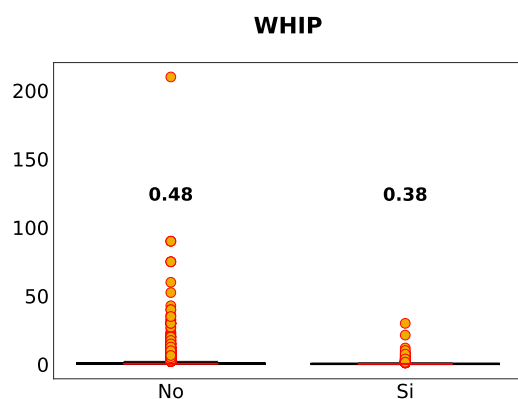


**Bases por bola permitidas**

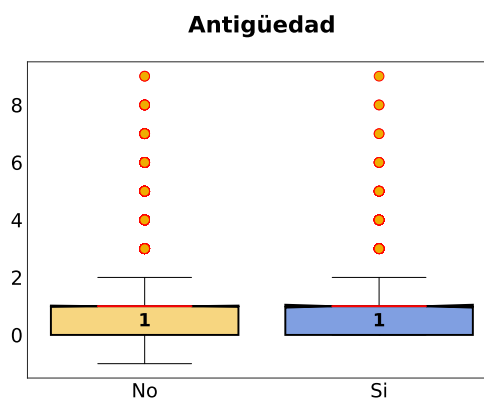
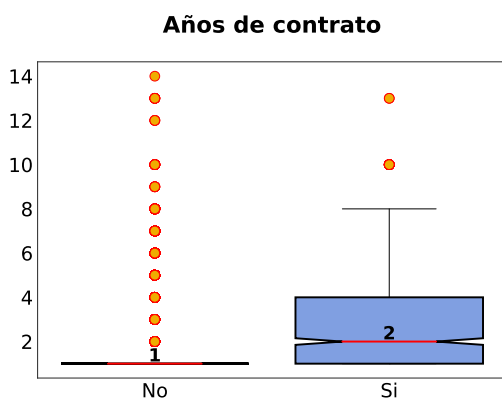
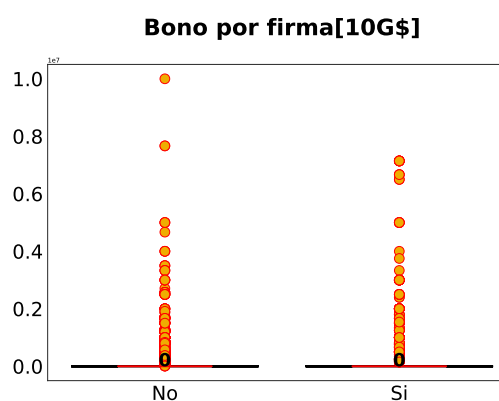
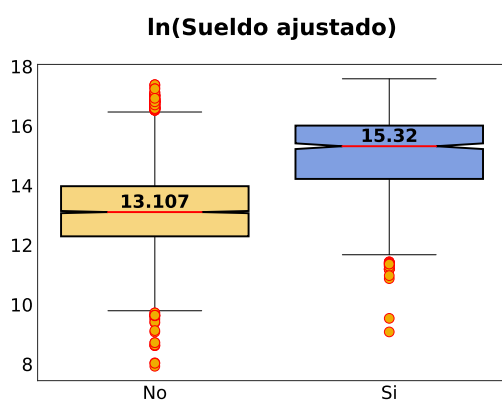


**WAR**

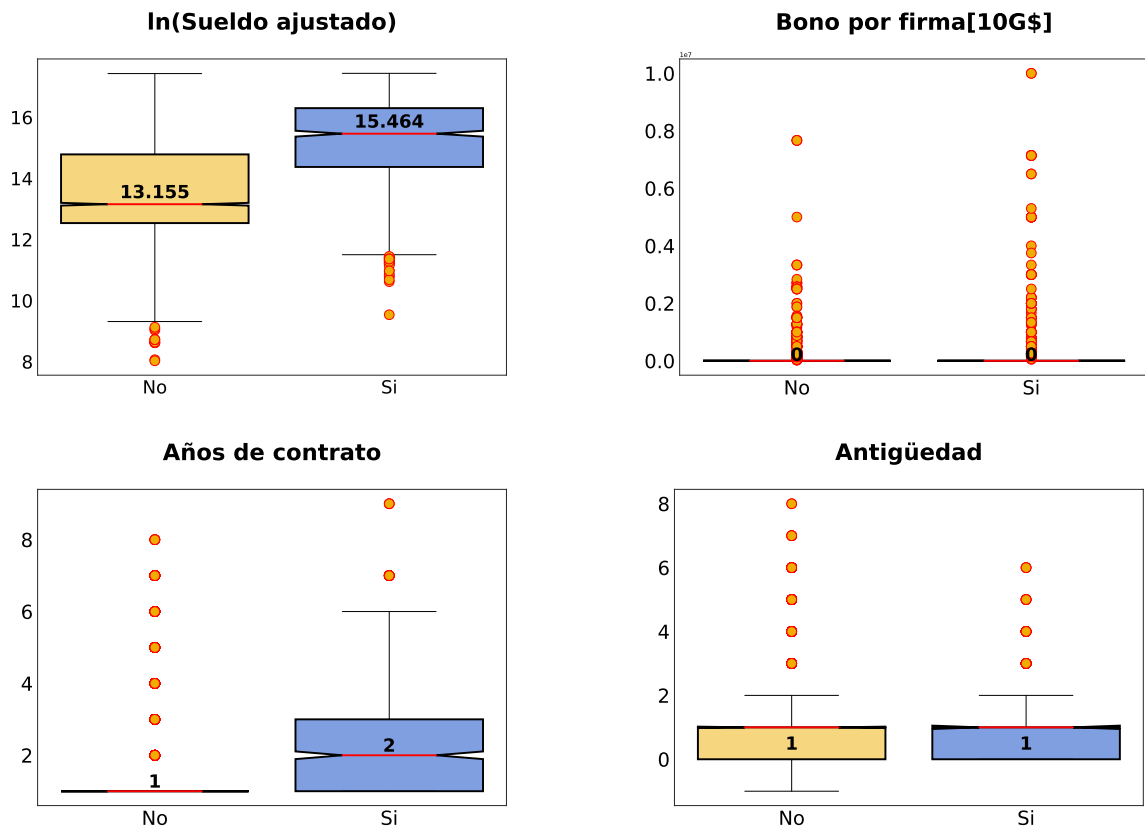




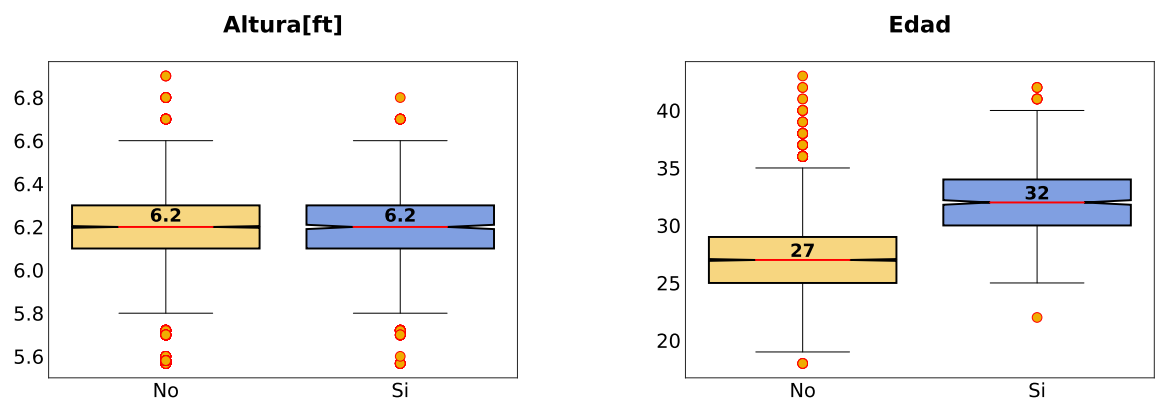
#### A.1.7. Datos contractuales - Bateadores

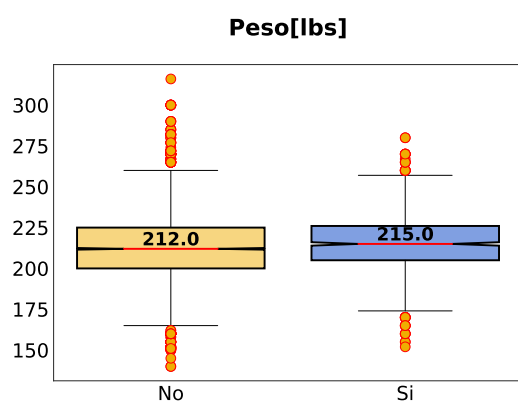


### A.1.8. Datos contractuales - Fielder

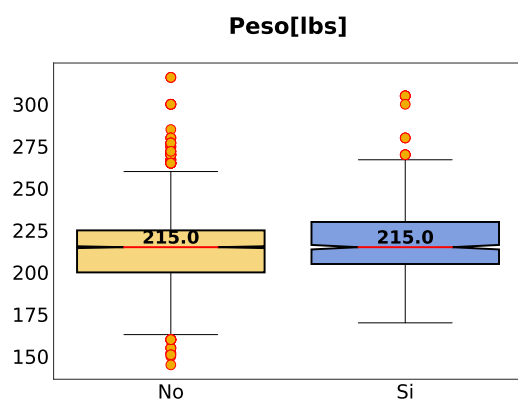
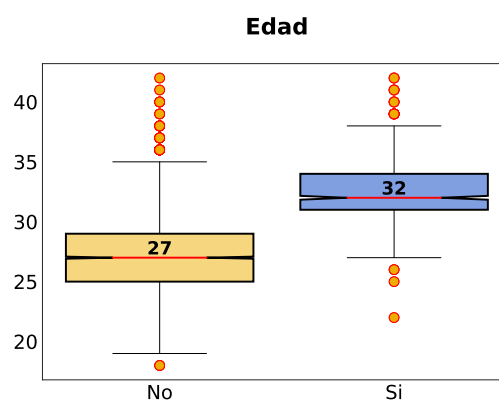
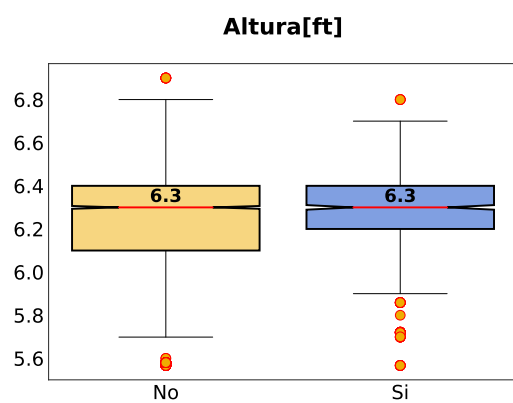


### A.1.9. Datos generales - Bateadores





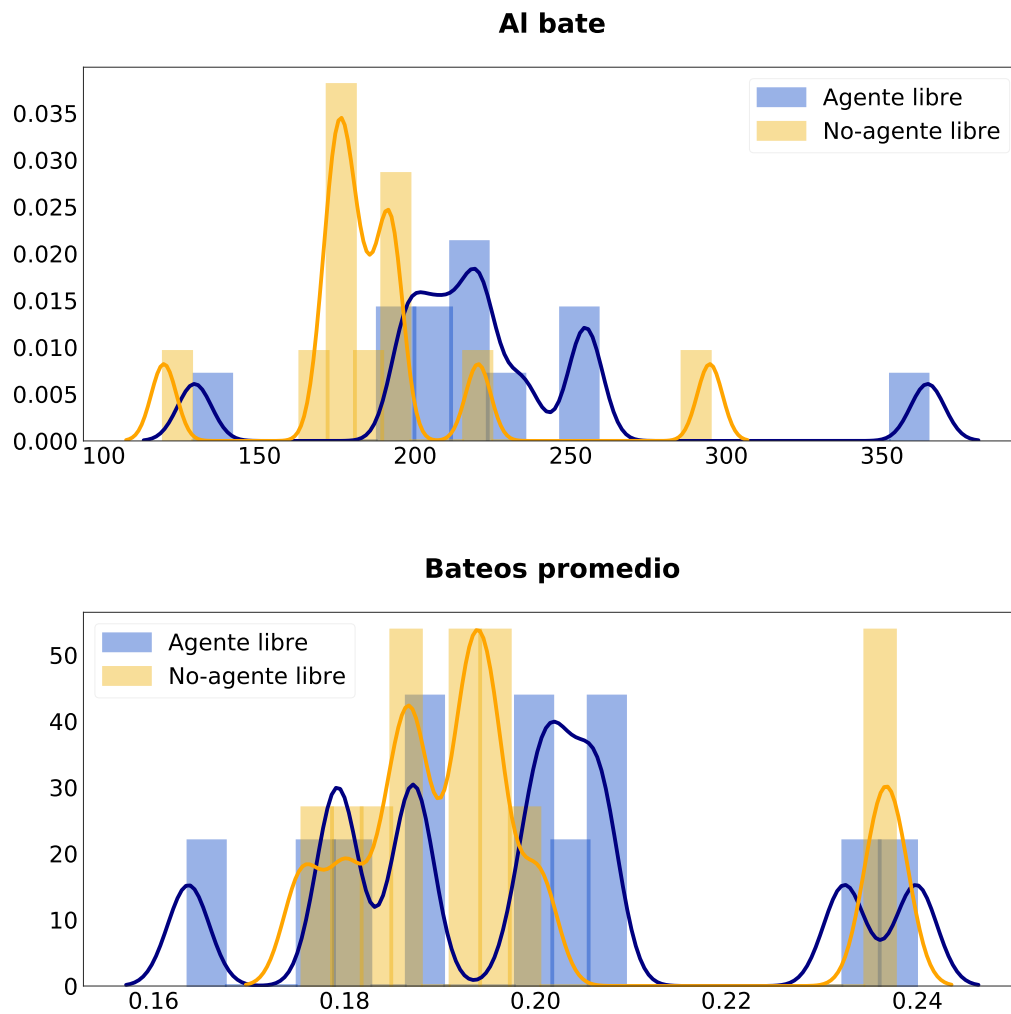
#### A.1.10. Datos generales - Feilders



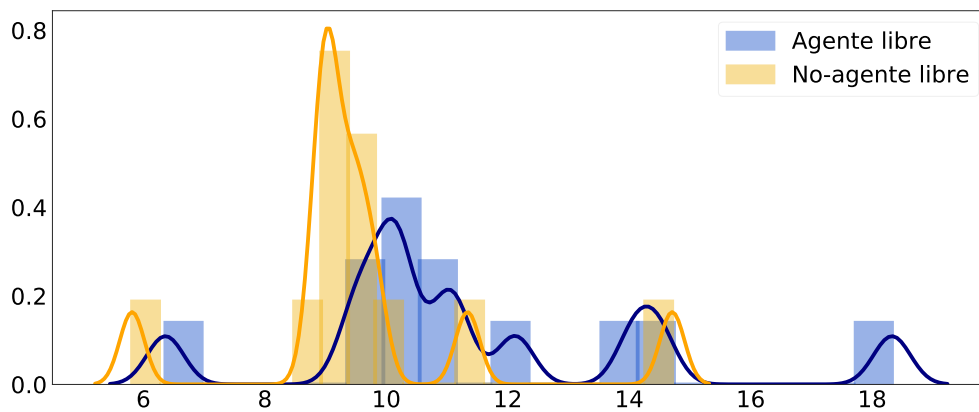
## A.2. Diagramas de densidad

De manera similar a la sección sobre los diagramas de caja, los jugadores que son agentes libres se etiquetan con un *Sí* y, en caso contrario, con un *No*. Se muestran los diagramas de densidad de las estadísticas deportivas, salarios y datos generales. Se tomaron los promedios de todos los años que abarca la base de datos.

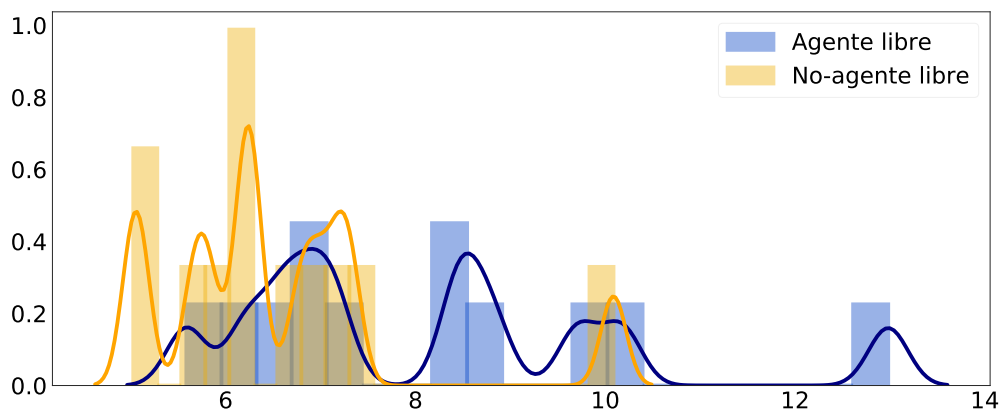
### A.2.1. Estadísticas deportivas acumuladas - Bateadores



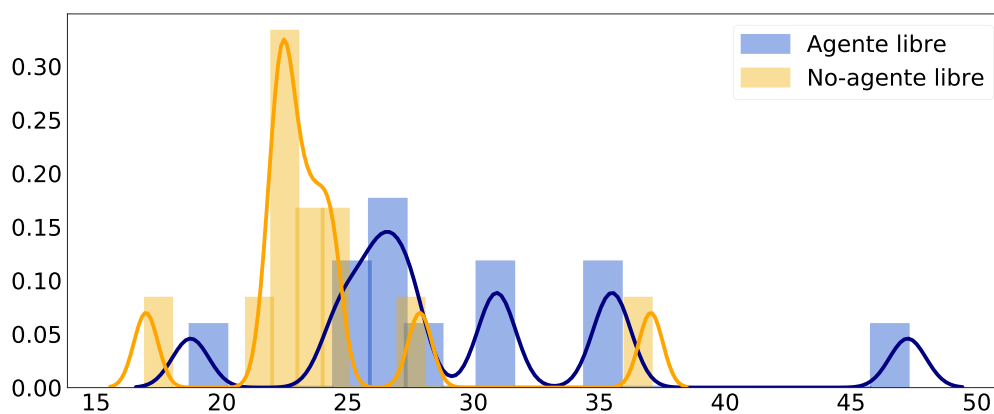
### Dobles



### Home-runs

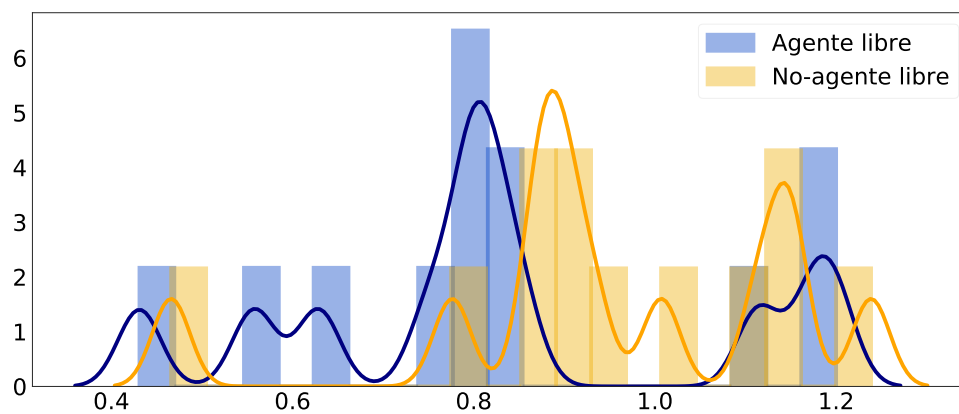


### Carreras limpias

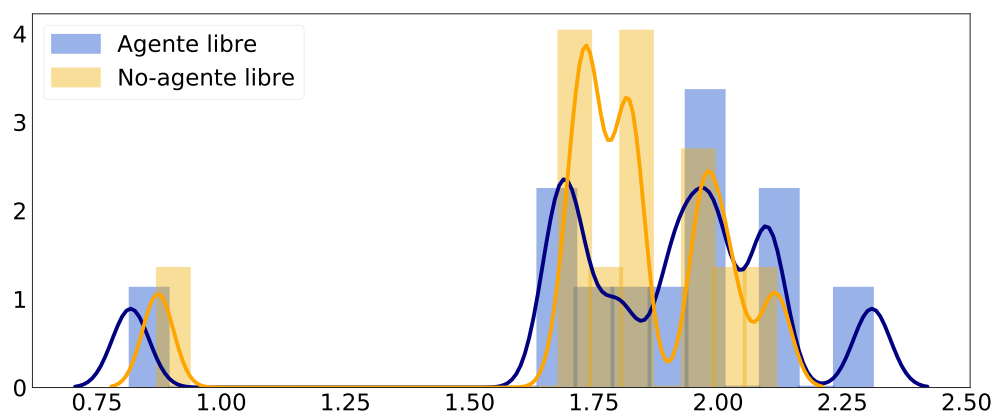




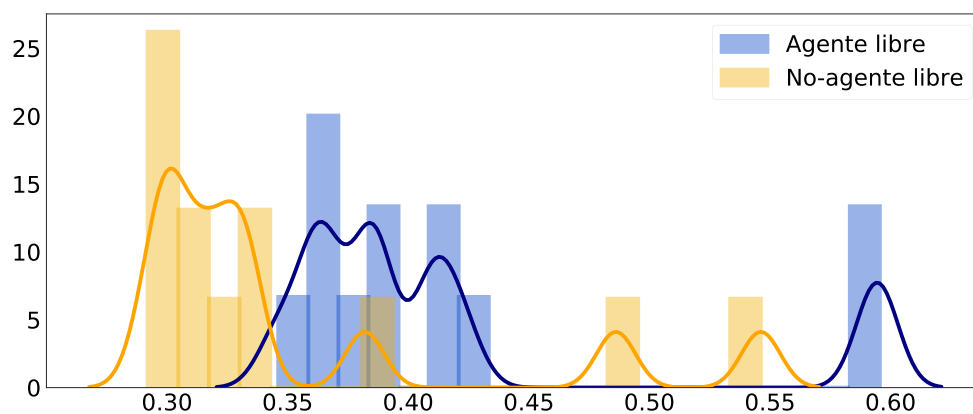
### Triples



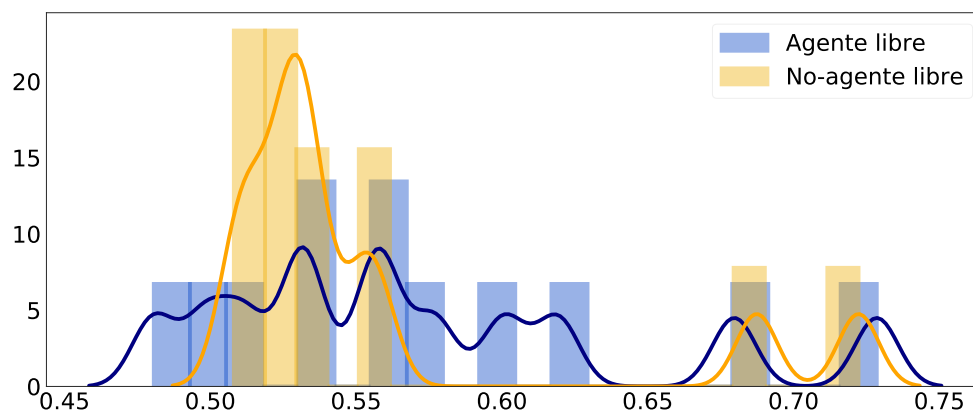
### WAR



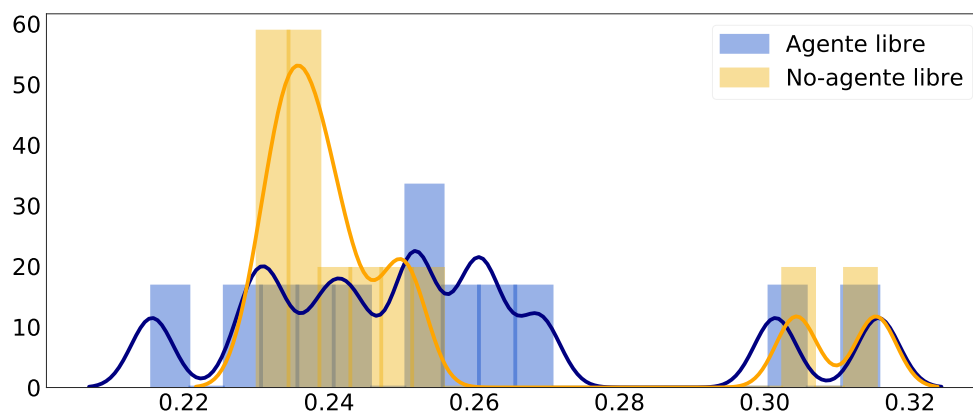
### %Juegos iniciados



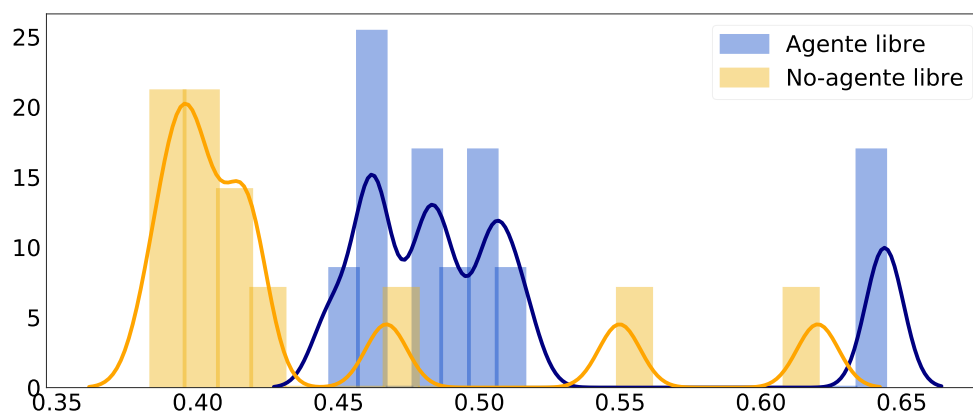
### %On-base-plus-slugging

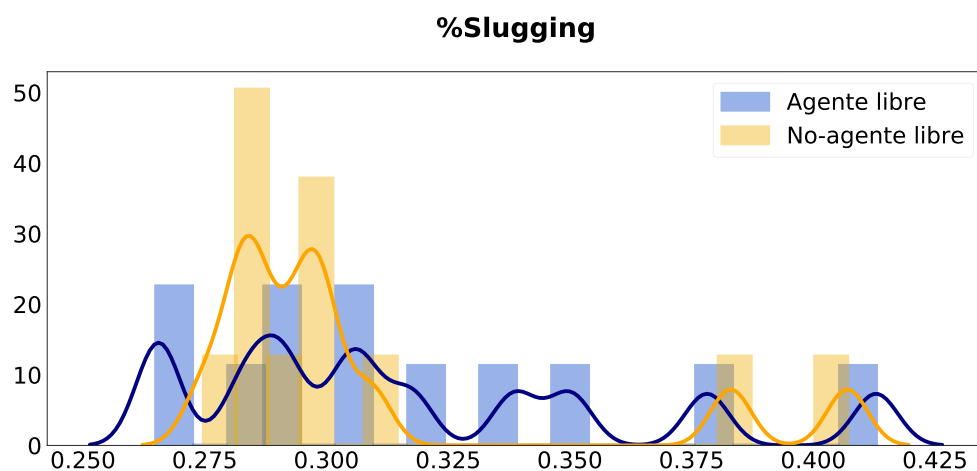


### %Embasado

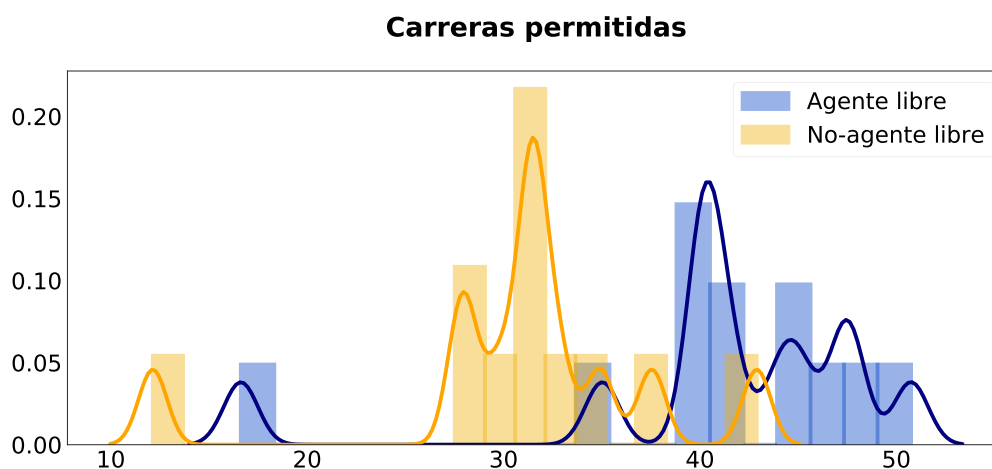
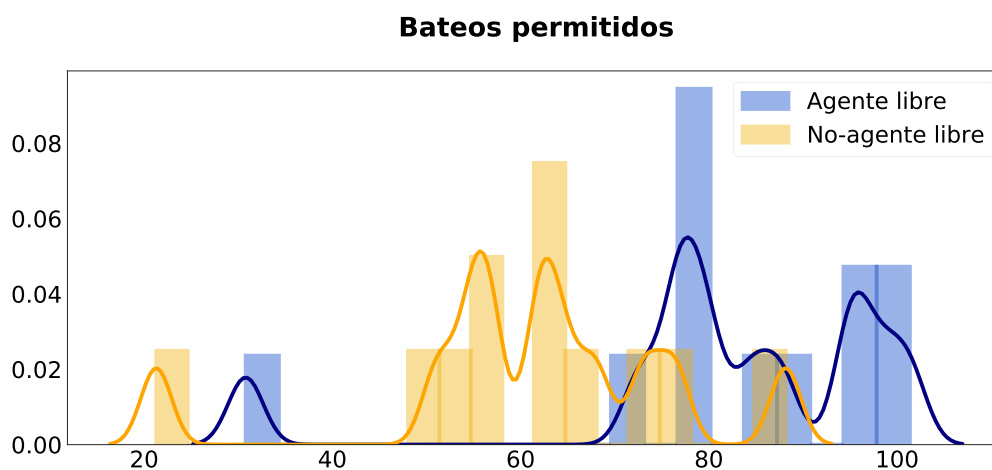


### %Partidos jugados

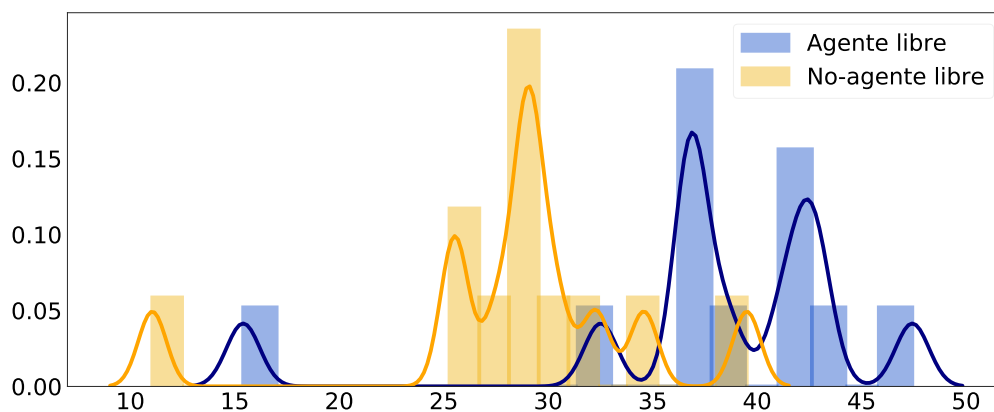




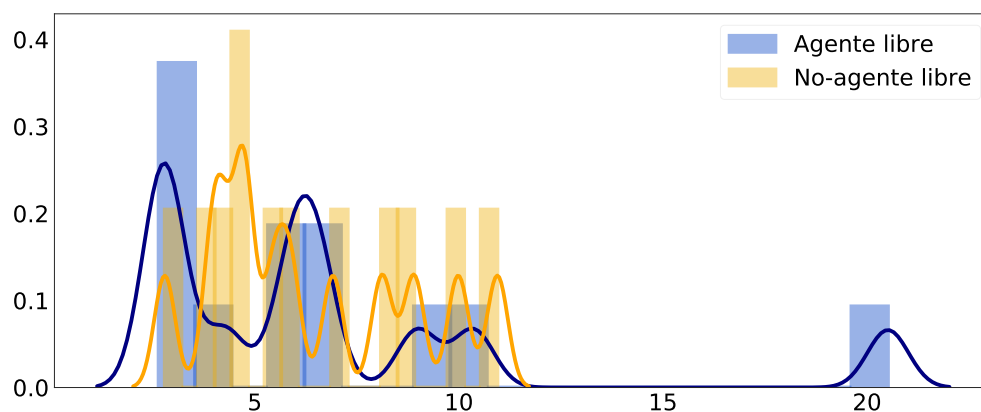
#### A.2.2. Estadísticas deportivas acumuladas - Filderos



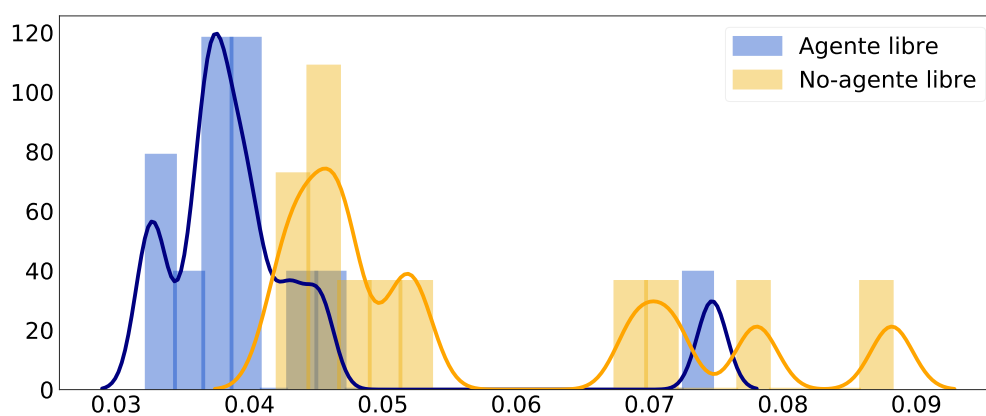
### Carreras ganadas



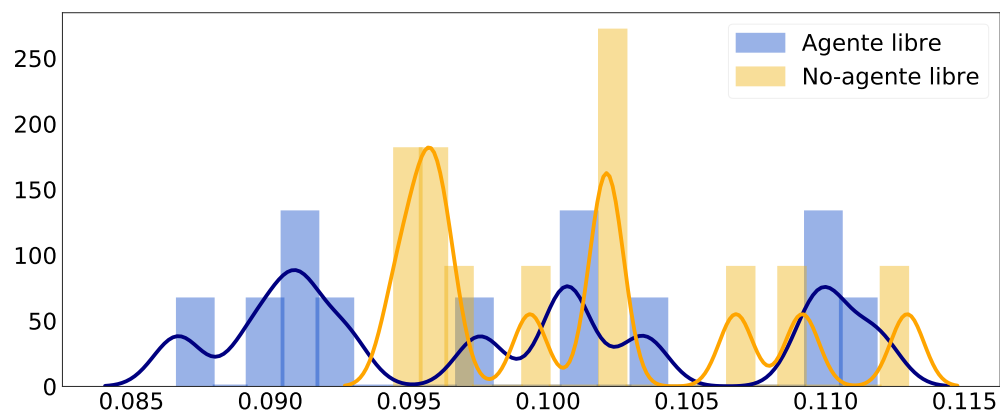
### Comando



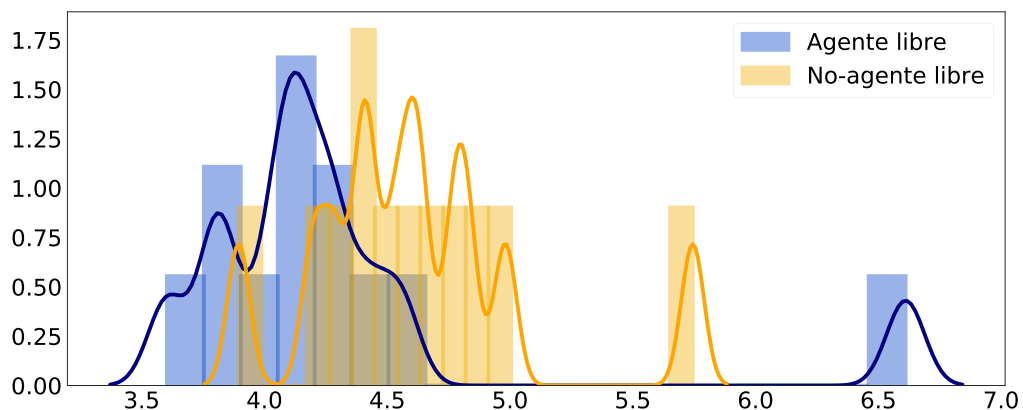
### Control



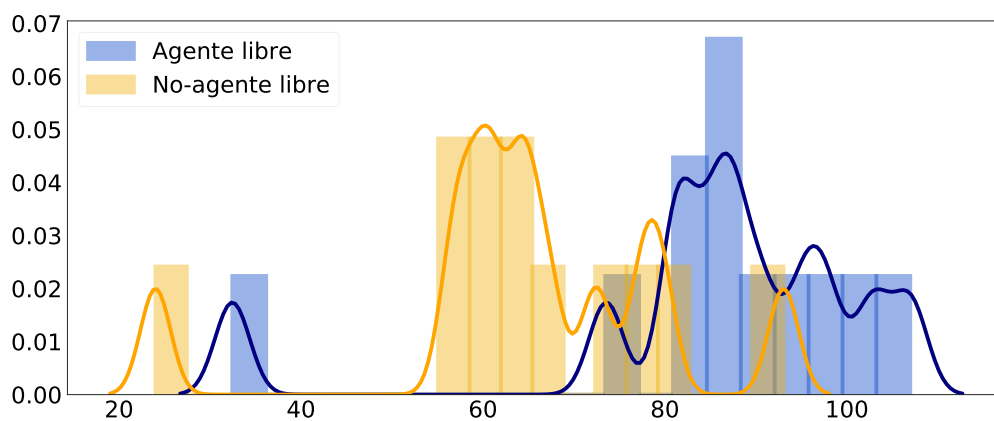
### Dominio



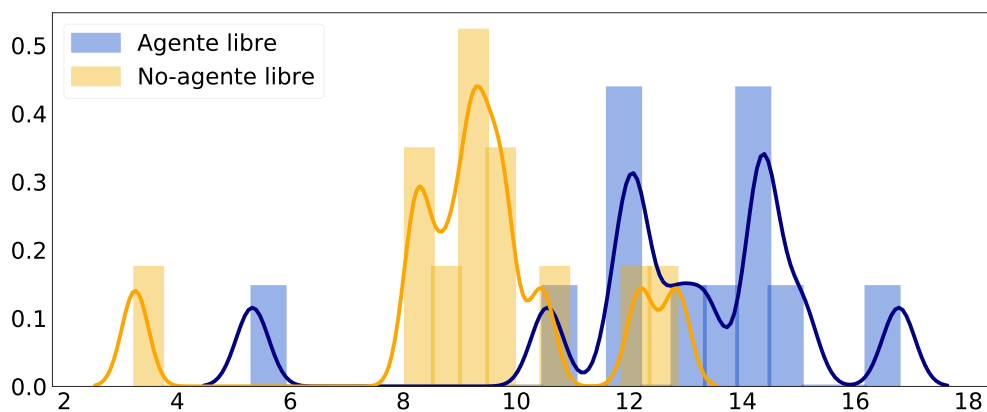
### %Carreras ganadas



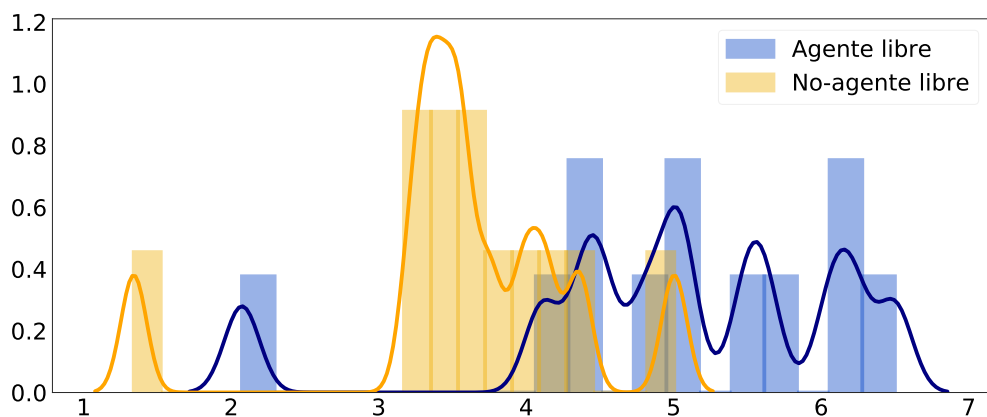
### Inning pitched



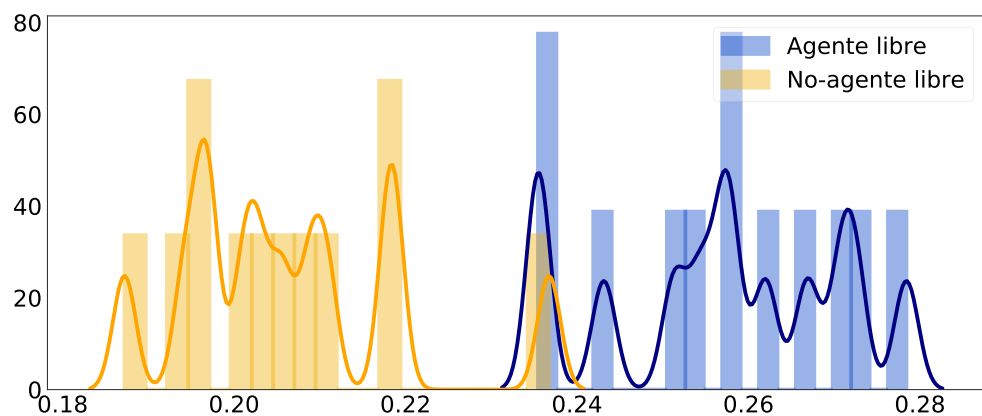
### Juegos iniciados



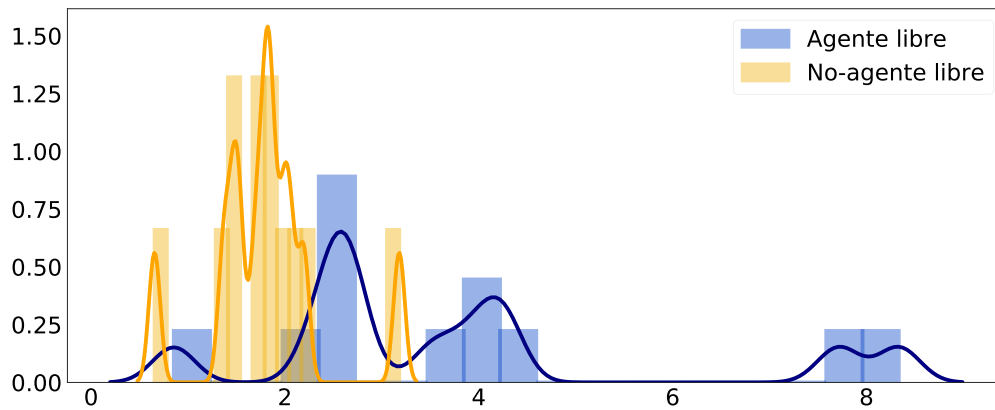
### Losses



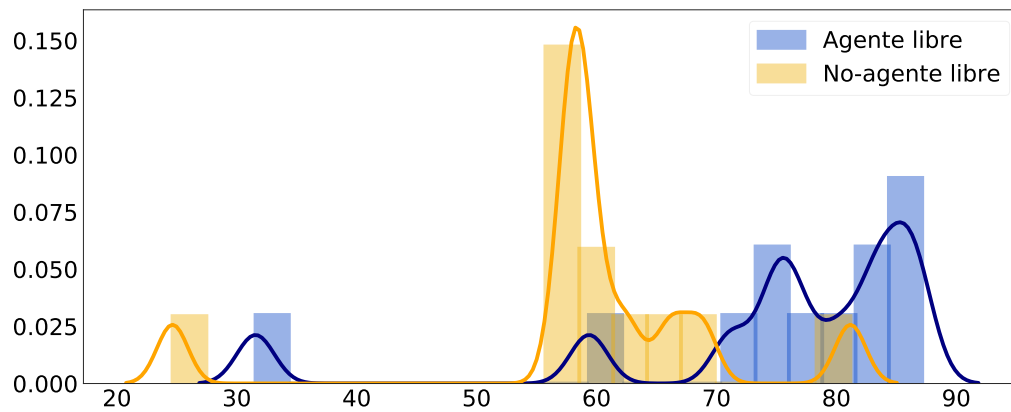
### Partidos jugados



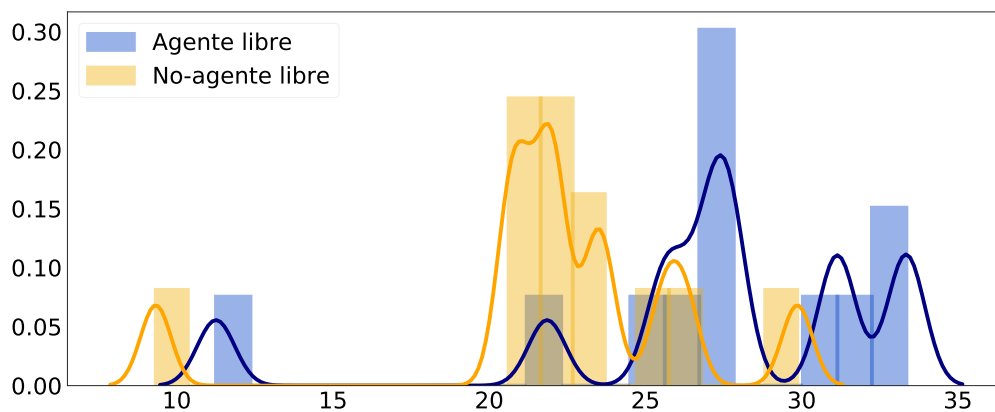
### Salvamentos



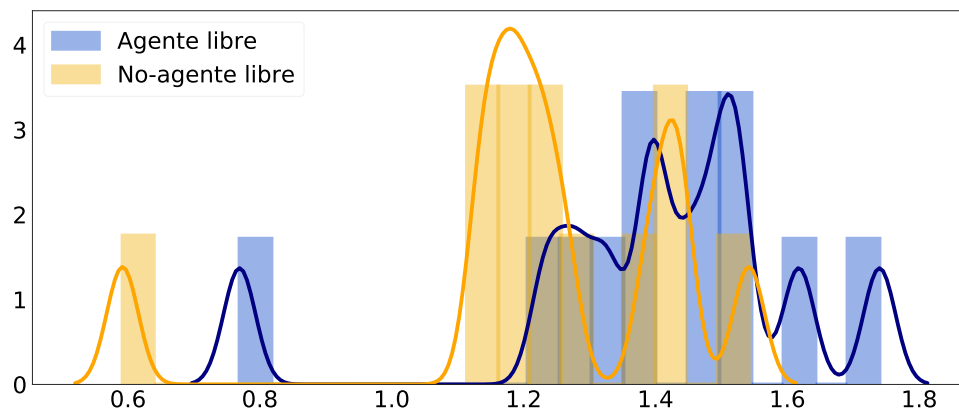
### Strike-outs



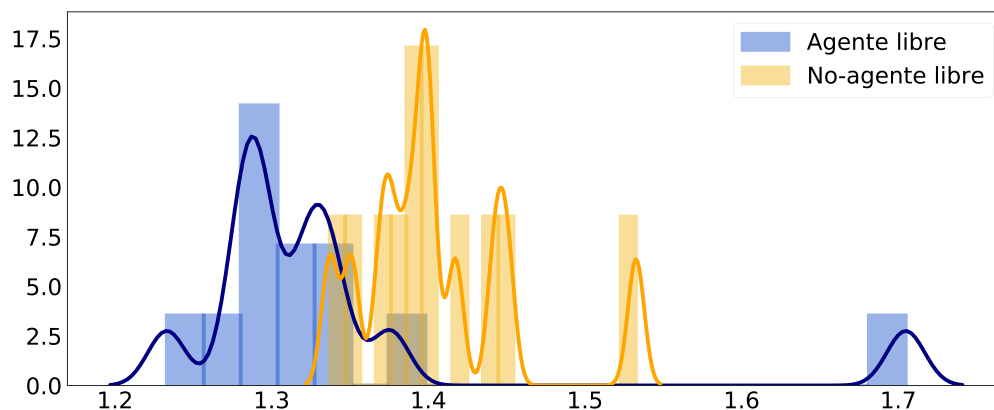
### Bases por bola permitidas



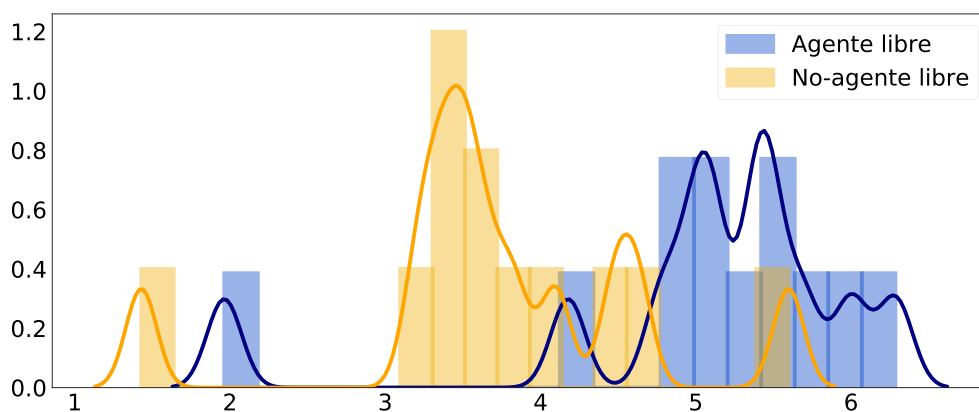
### WAR



### WHIP



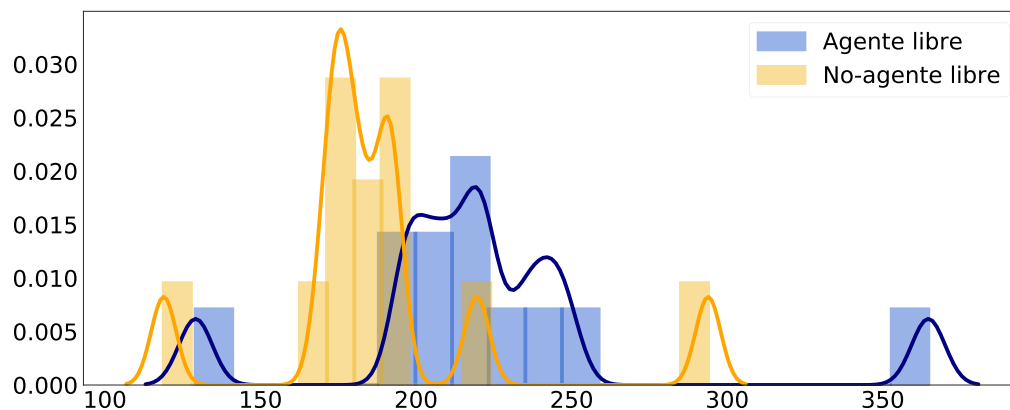
### Wins



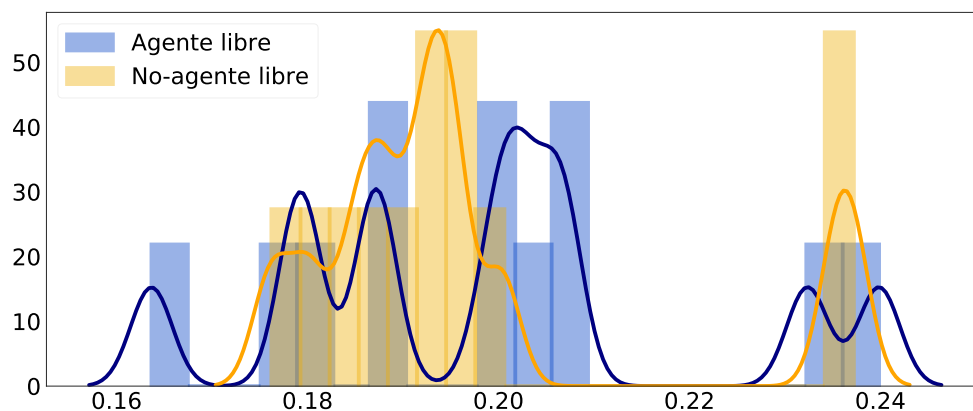


### A.2.3. Estadísticas deportivas promediadas anualmente - Bateadores

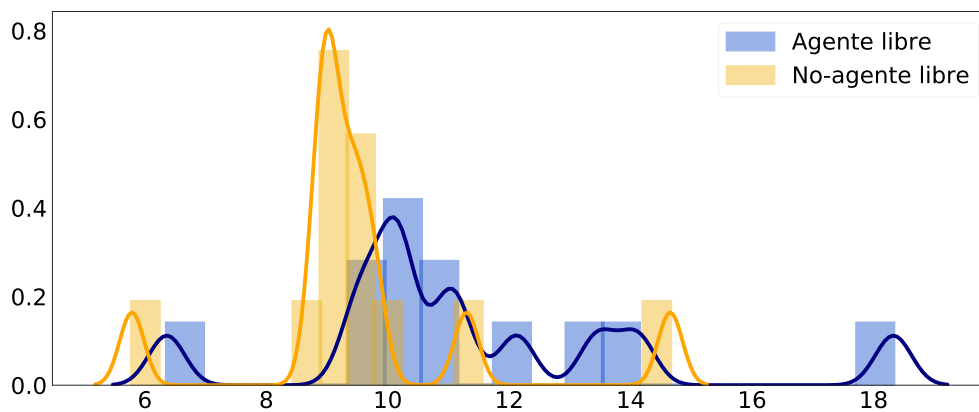
**Al bate**



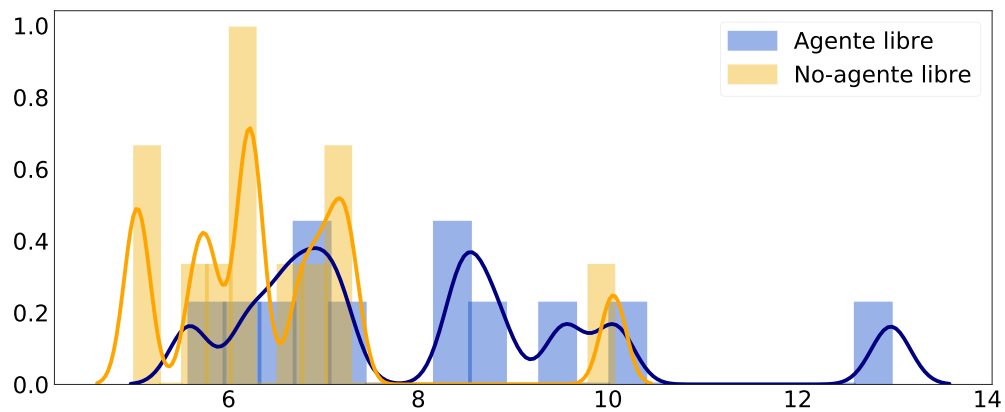
**Bateos promedio**



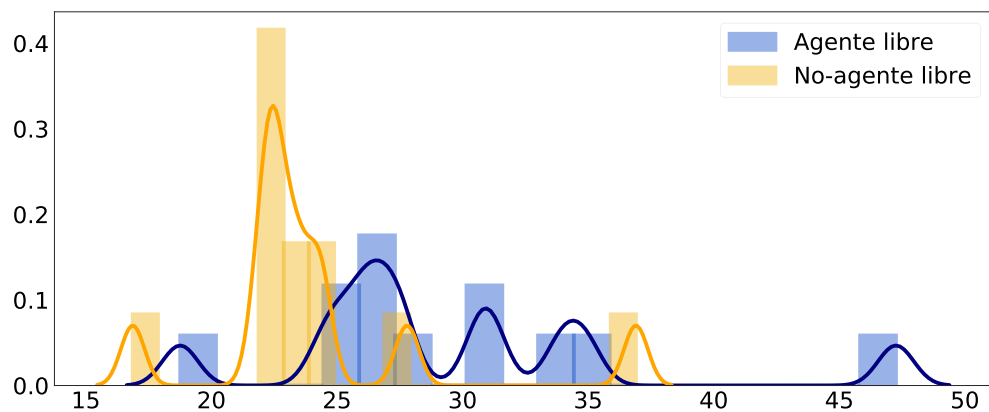
**Dobles**



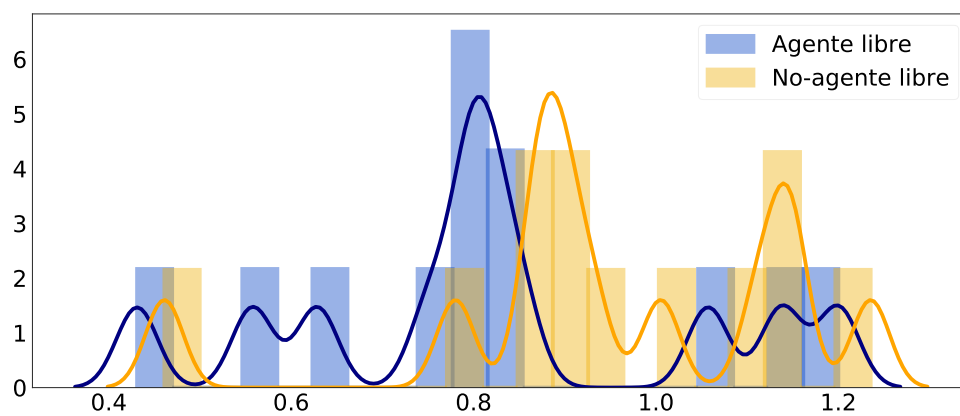
### Home-runs



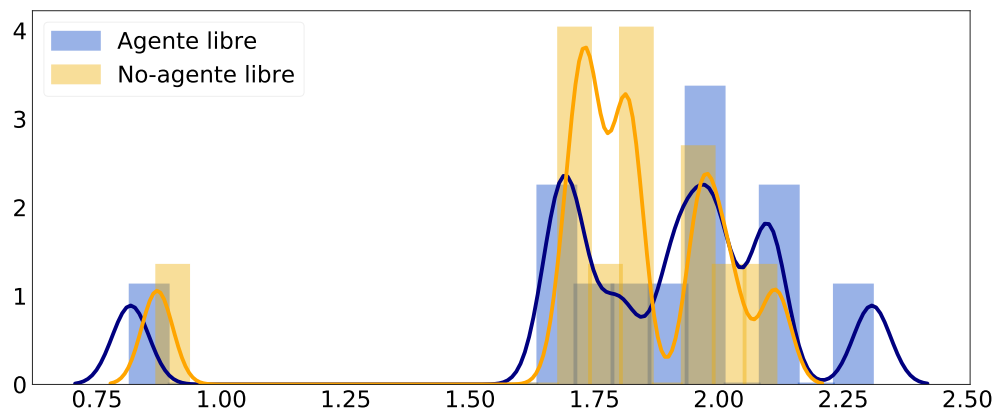
### Carreras limpias



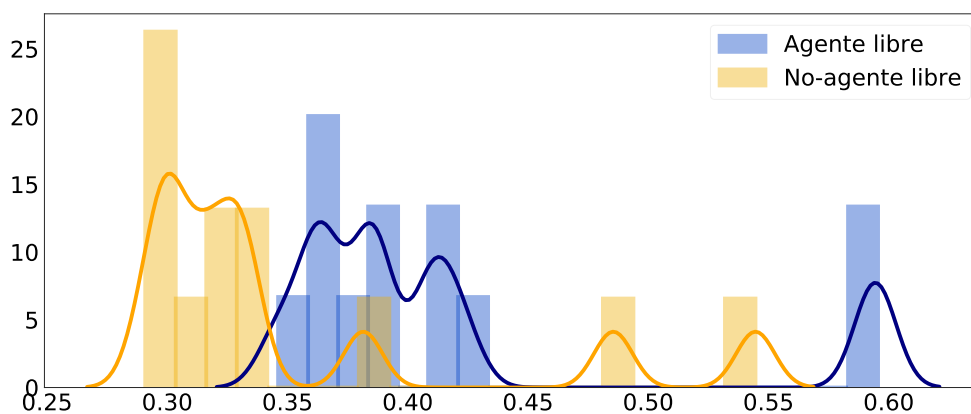
### Triples



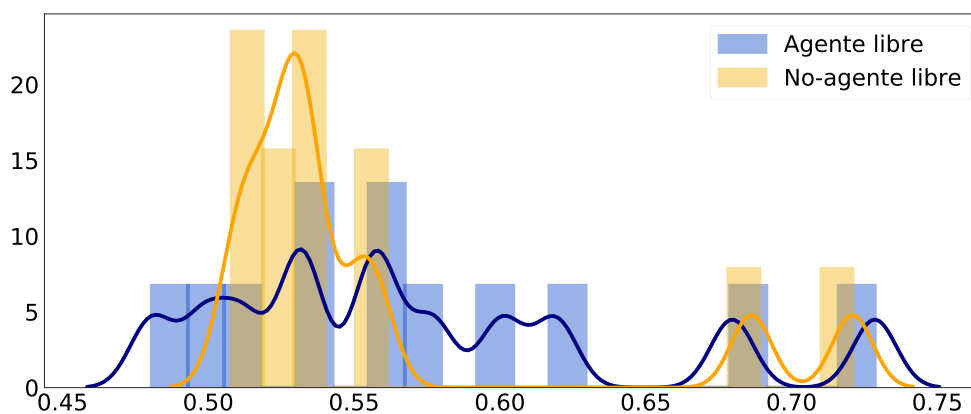
### WAR



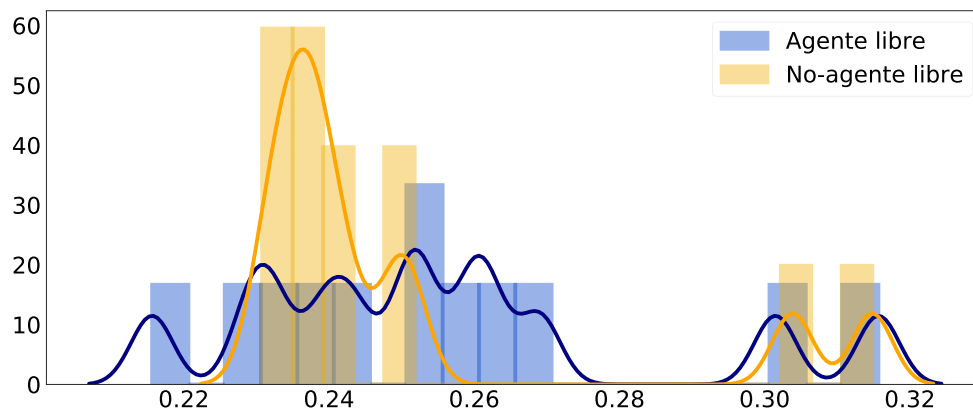
### %Juegos iniciados



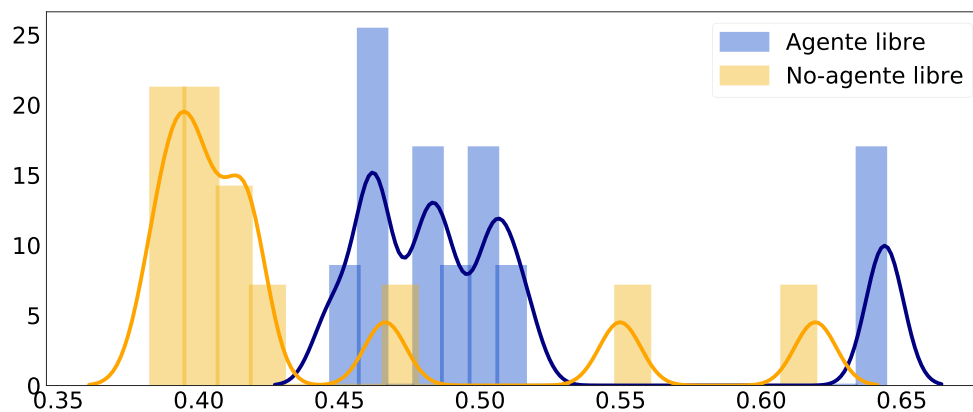
### %On-base-plus-slugging



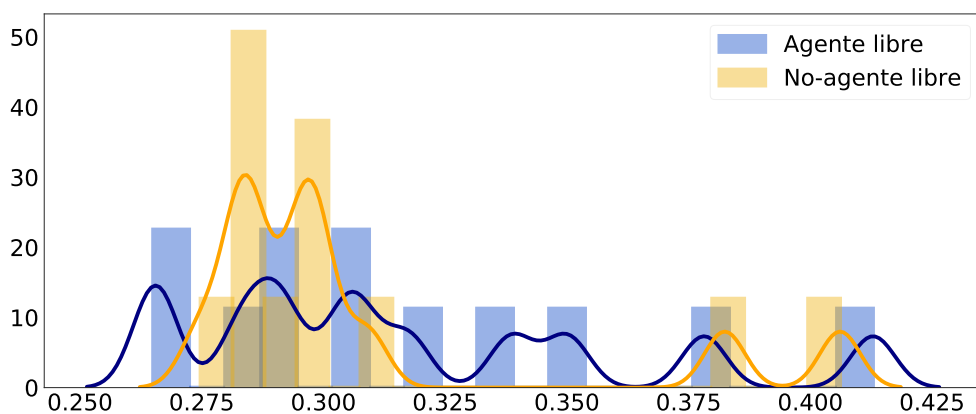
### %Embásado



### %Partidos jugados

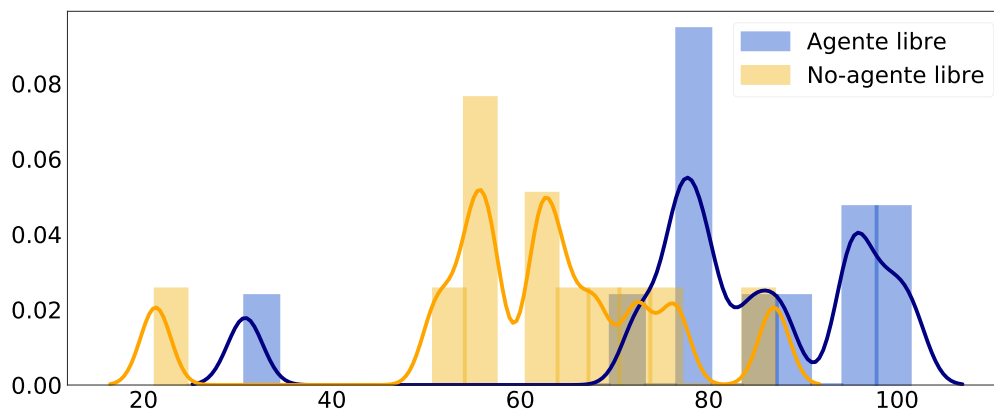


### %Slugging

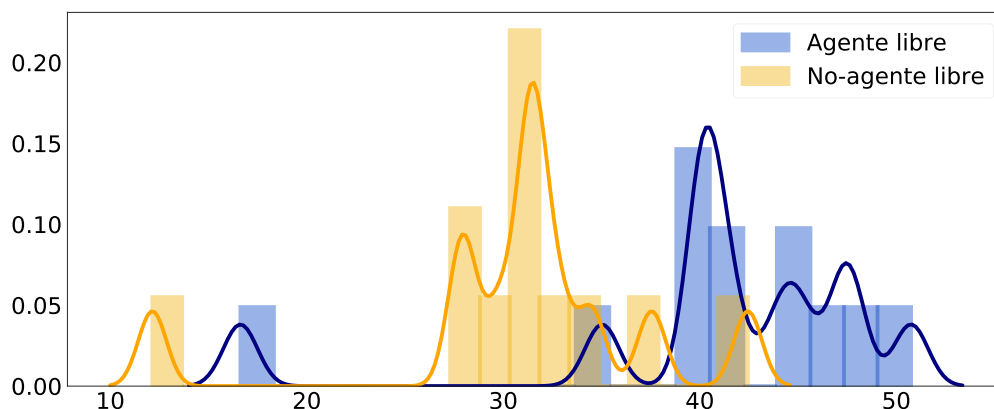


#### A.2.4. Estadísticas deportivas promediadas anualmente - Filderos

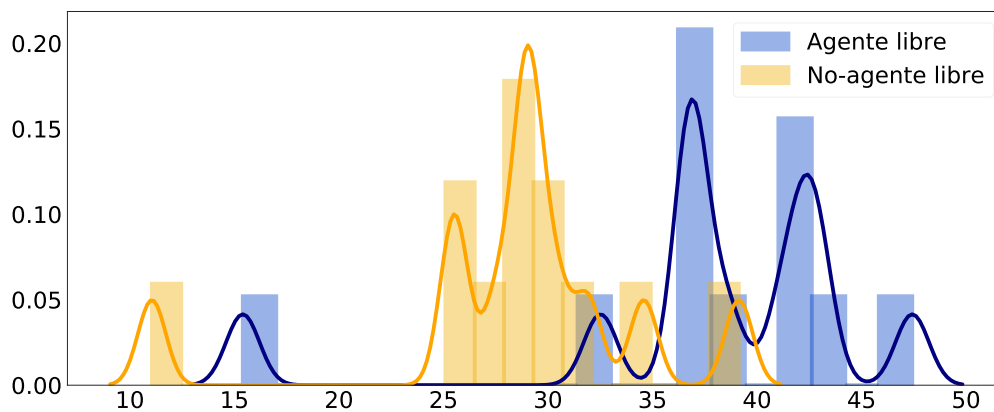
**Bateos permitidos**



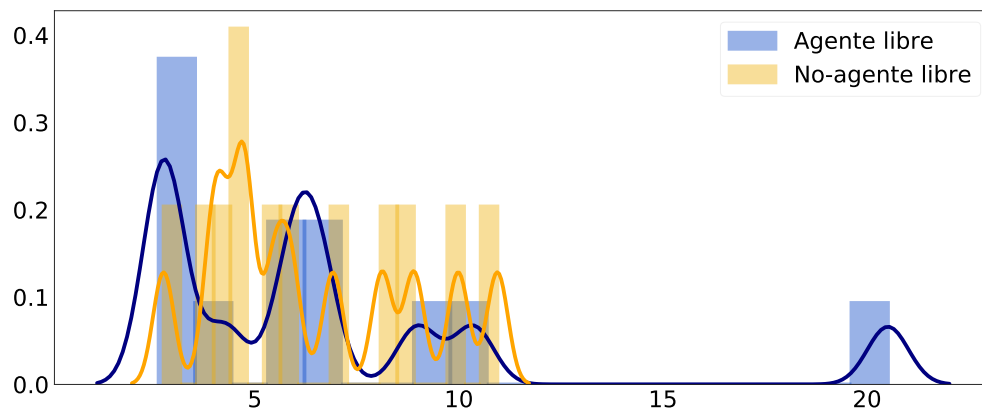
**Carreras permitidas**



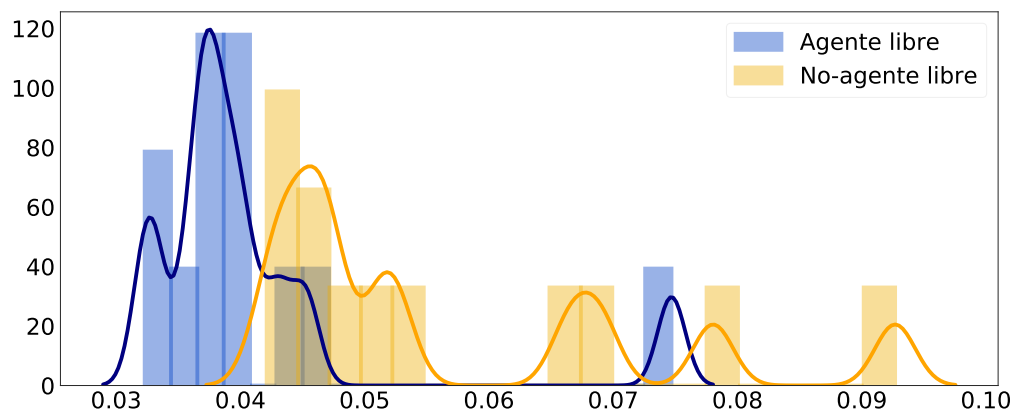
**Carreras ganadas**



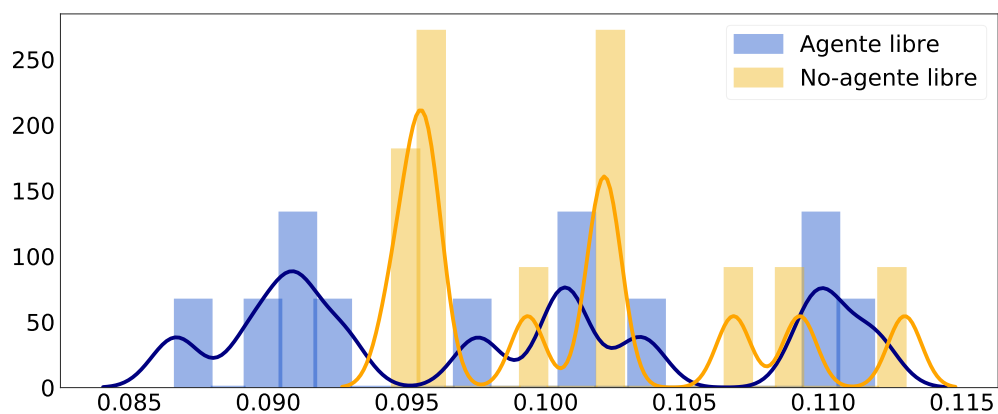
### Comando



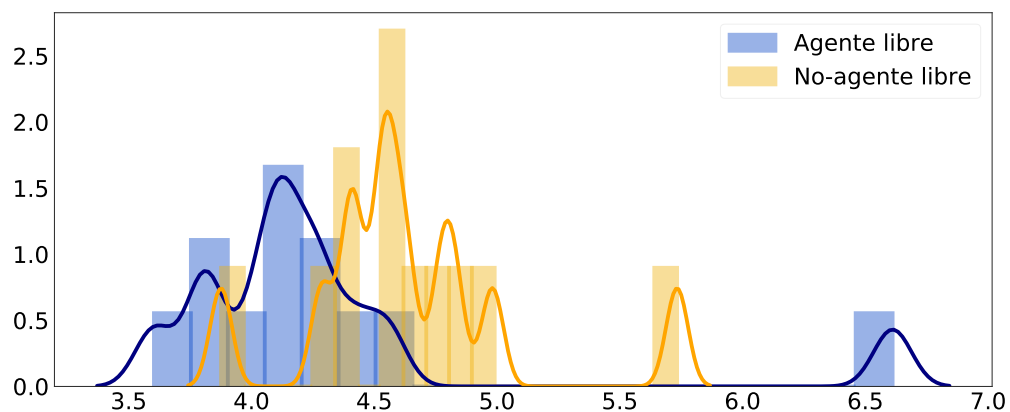
### Control



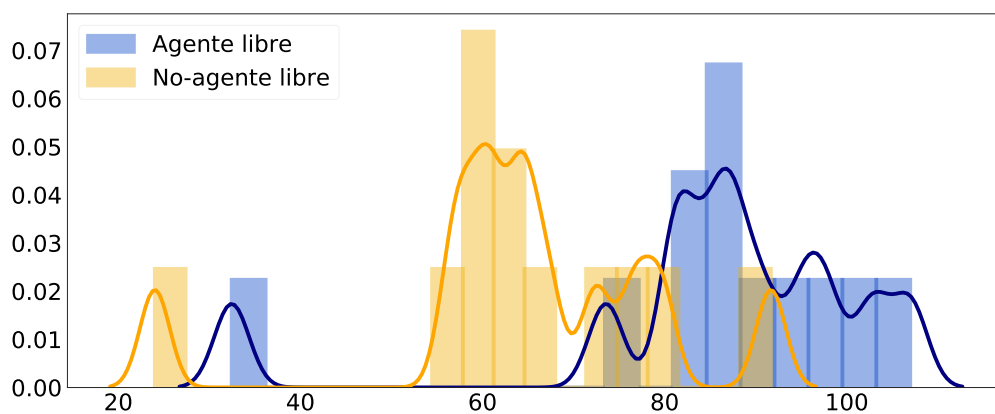
### Dominio



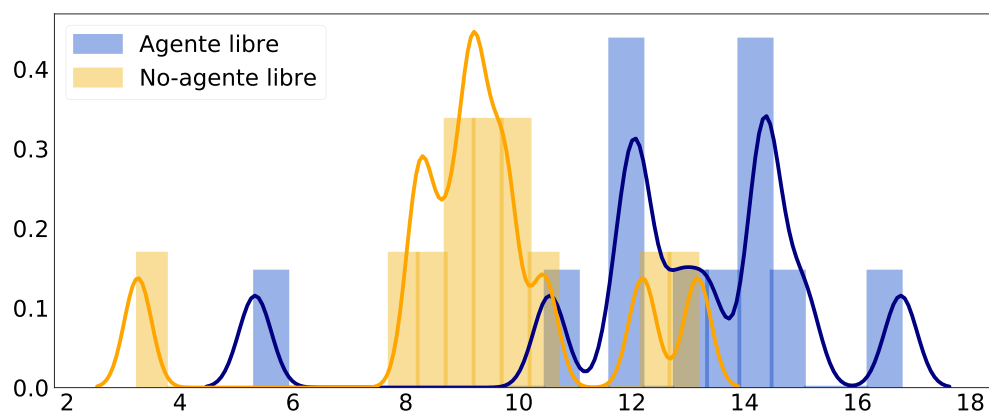
### %Carreras ganadas



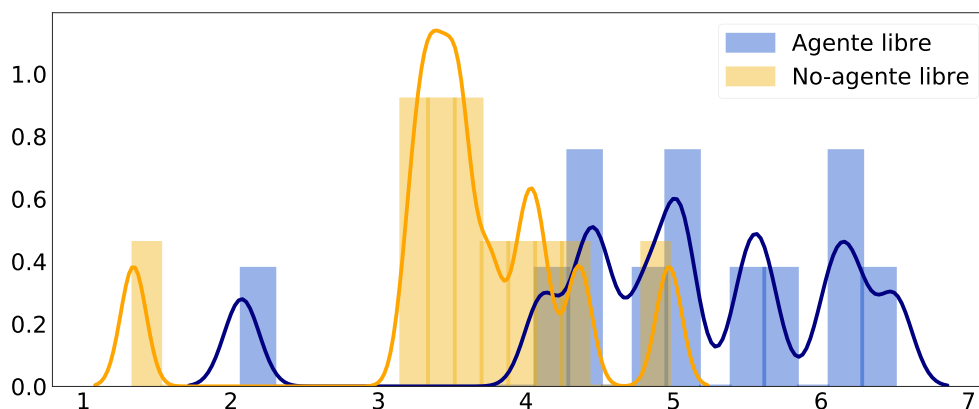
### Inning pitched



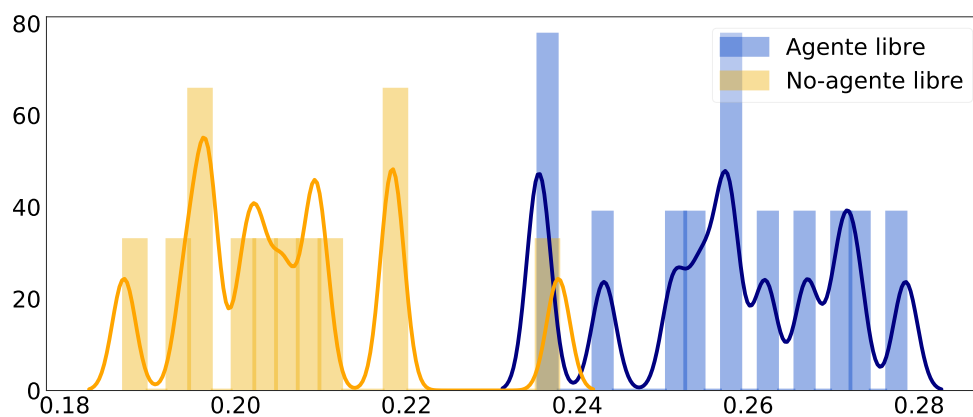
### Juegos iniciados



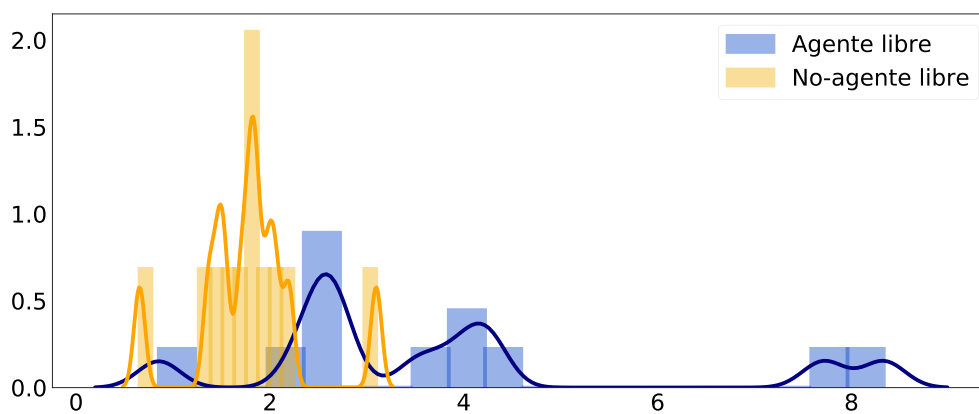
### Losses



### Partidos jugados

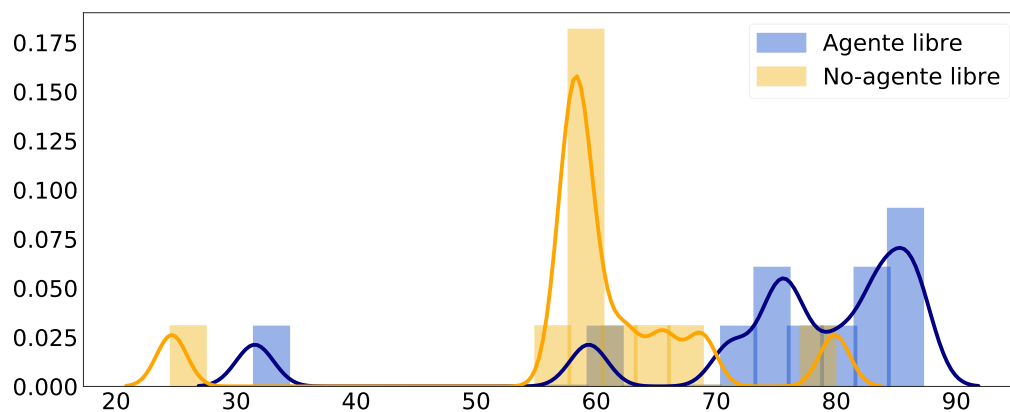


### Salvamentos

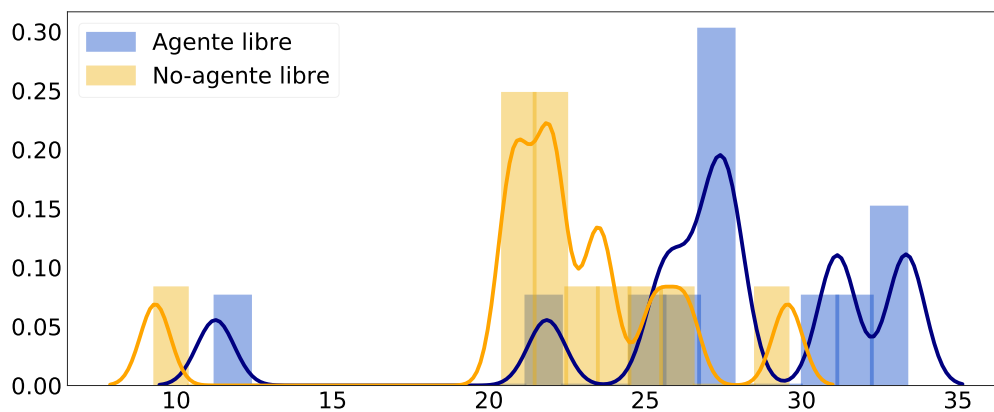




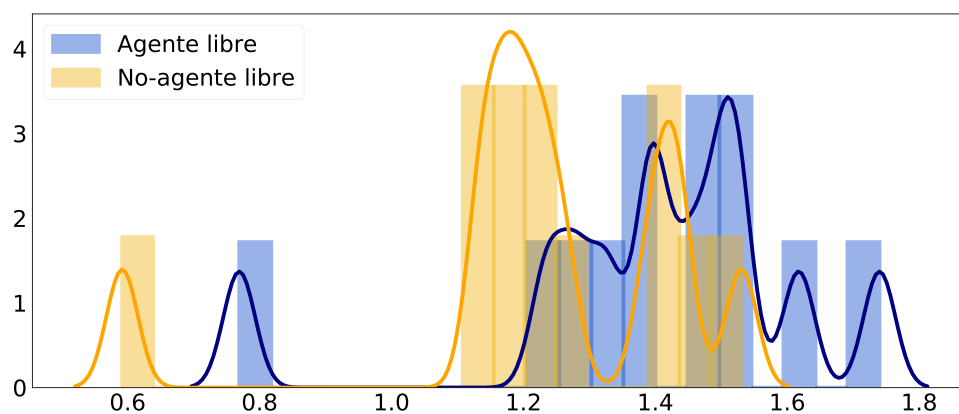
### Strike-outs



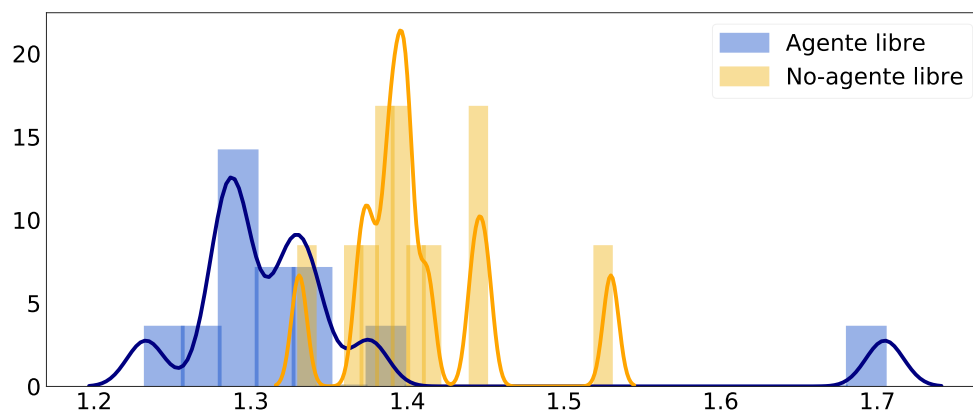
### Bases por bola permitidas



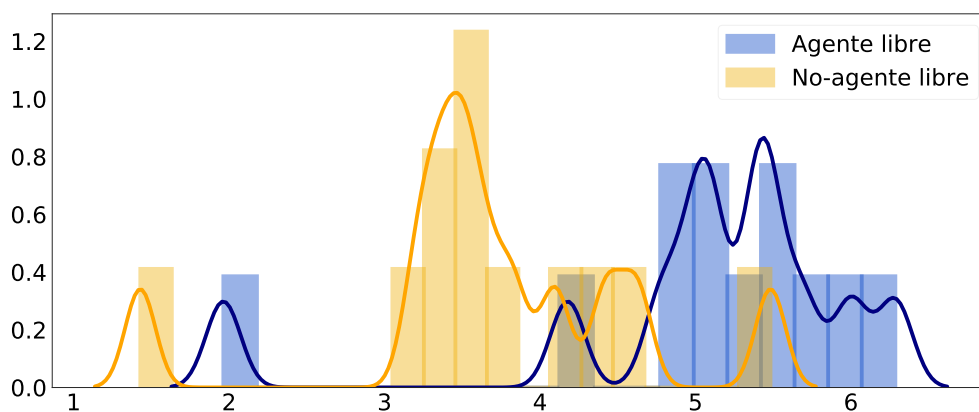
### WAR



### WHIP

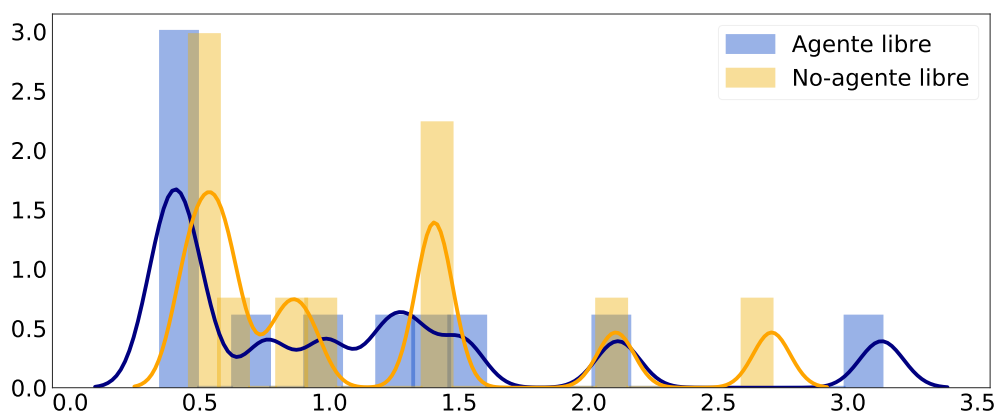


### Wins

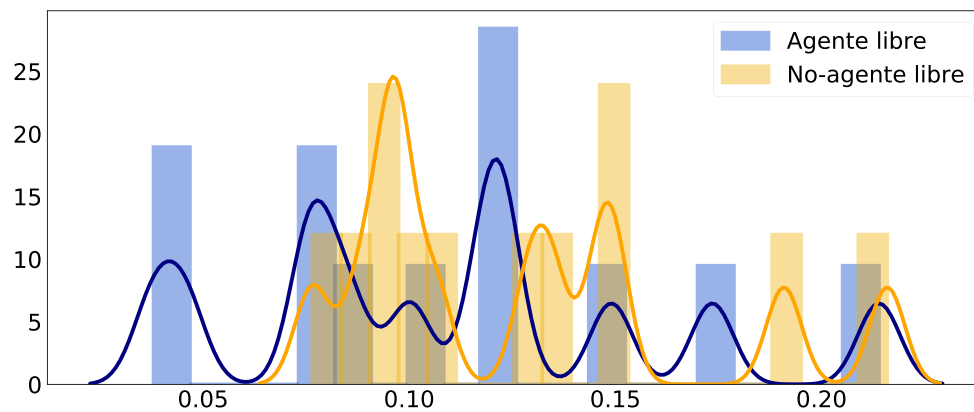


## A.2.5. Estadísticas deportivas por juego - Bateadores

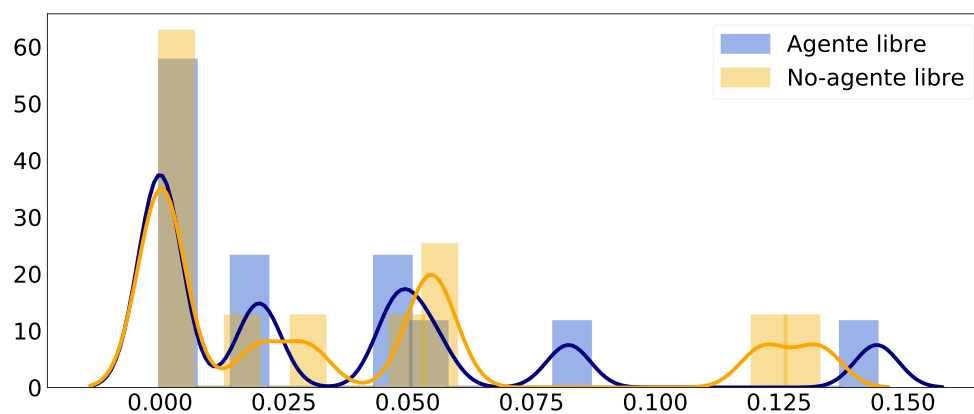
### Al bate



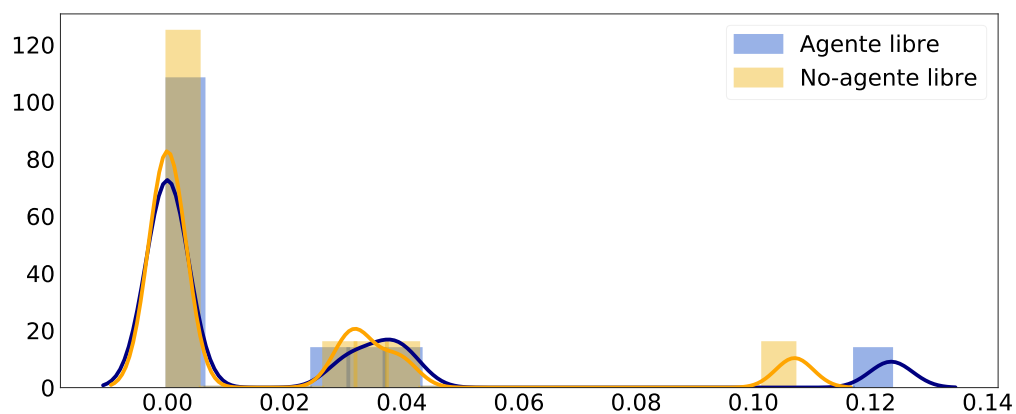
### Bateos promedio



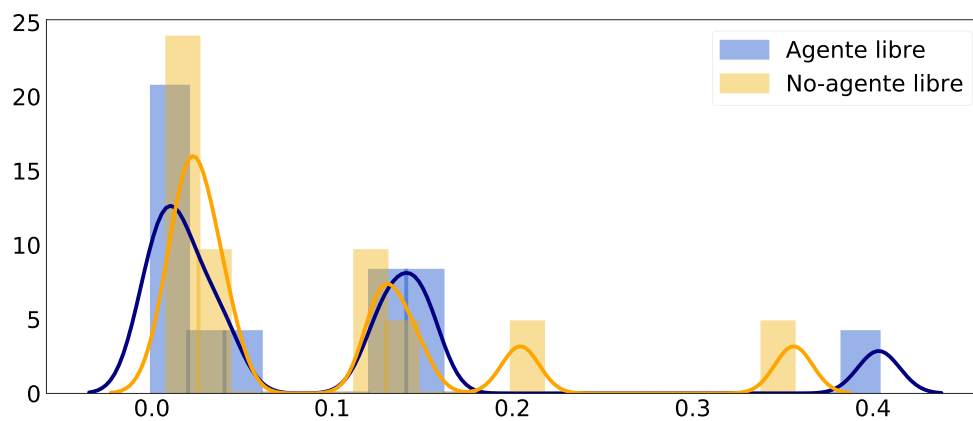
### Dobles



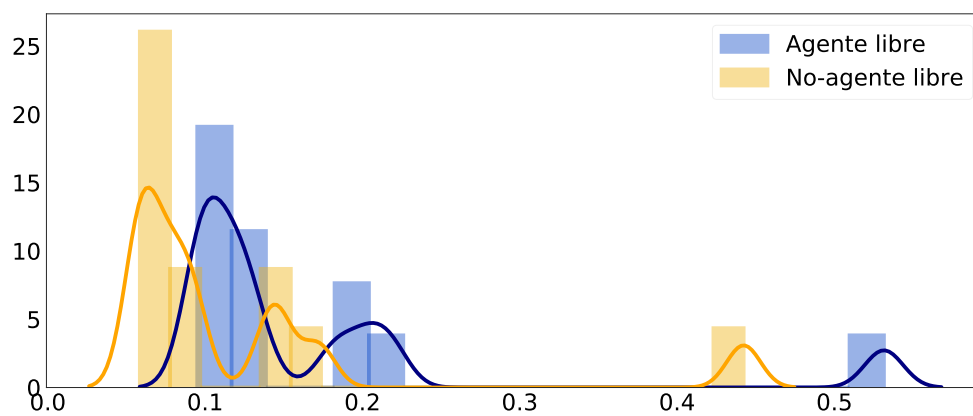
### Home-runs



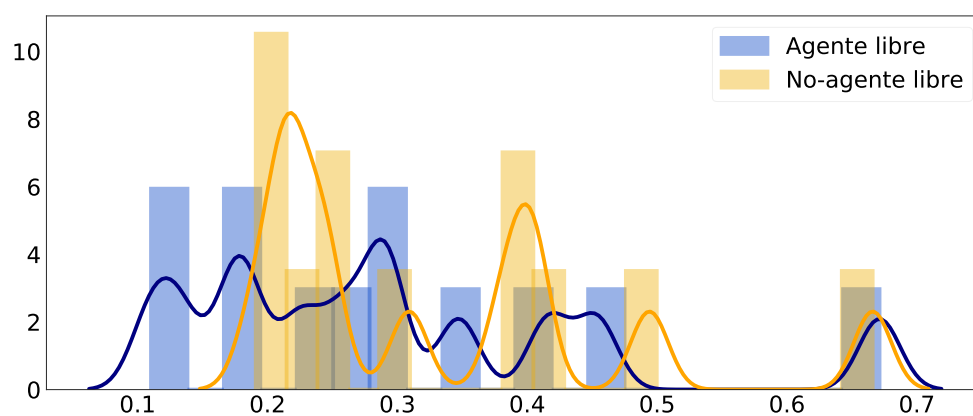
### Carreras limpias



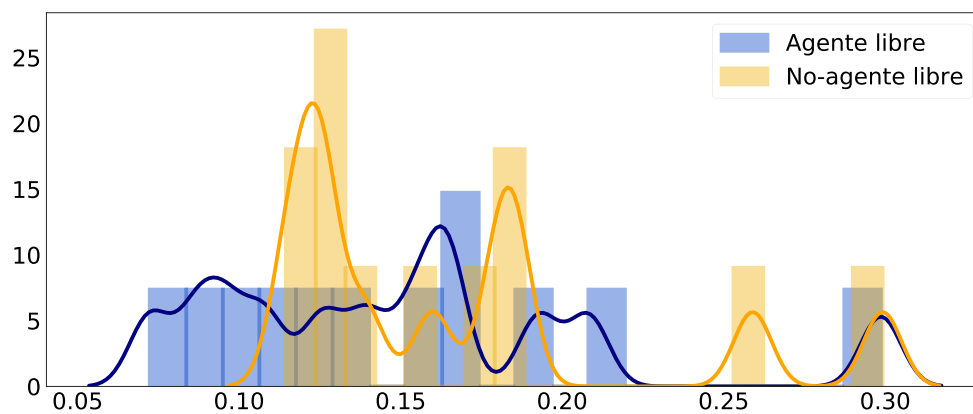
### %Juegos iniciados



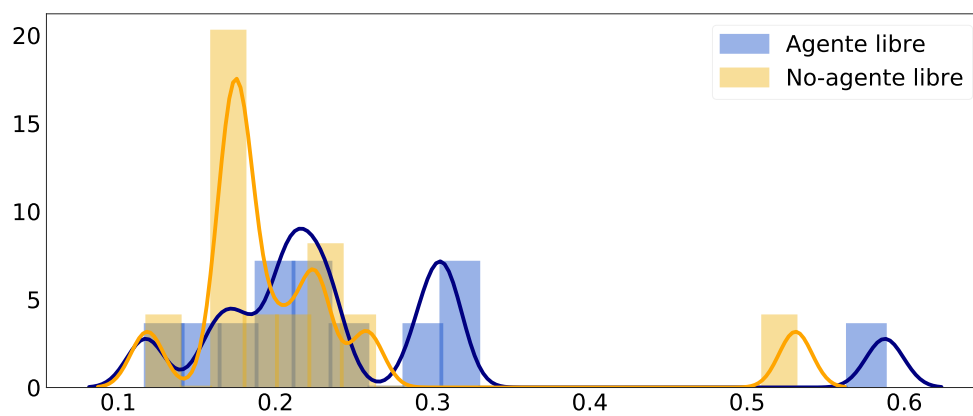
### %On-base-plus-slugging



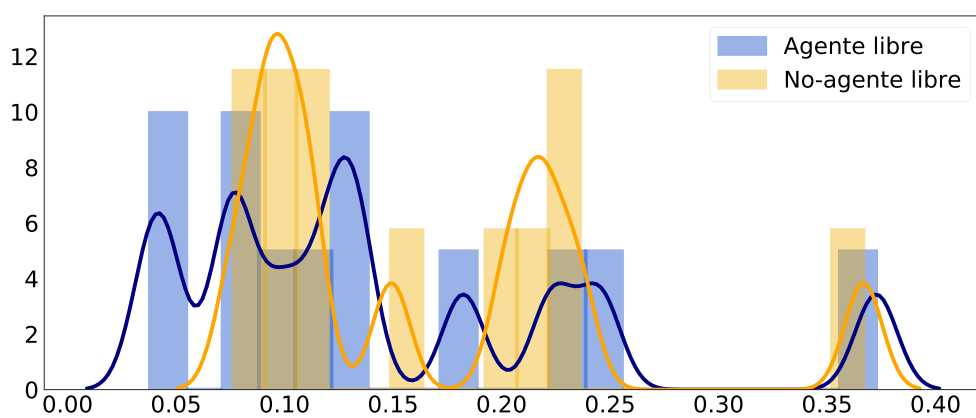
### %Embasado



### %Partidos jugados

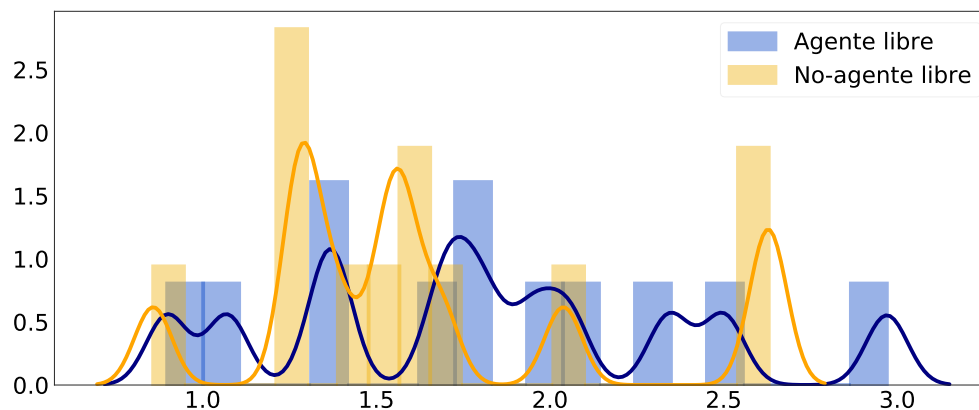


### %Slugging

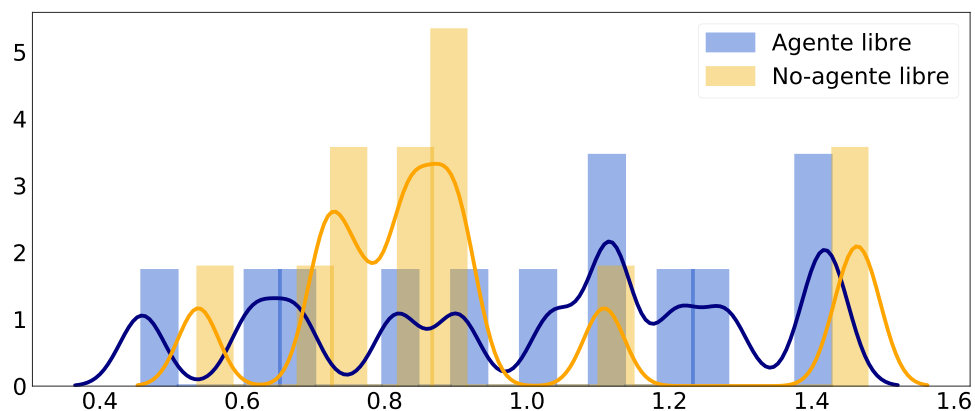


### A.2.6. Estadísticas deportivas por juego - Filderos

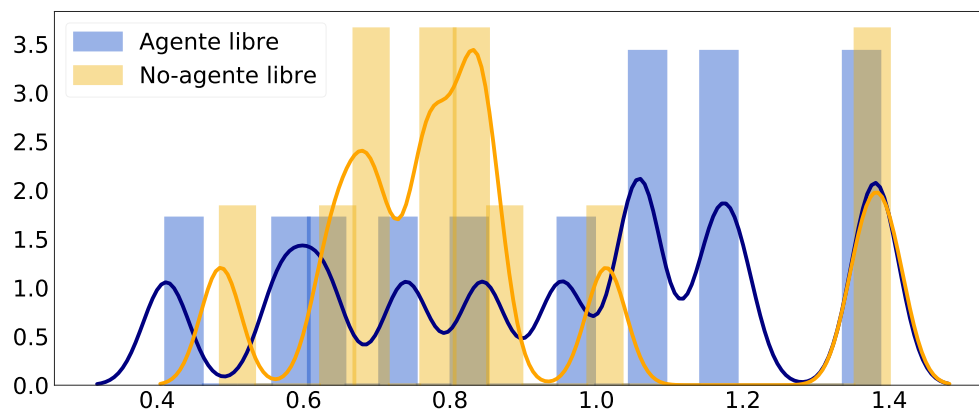
**Bateos permitidos**



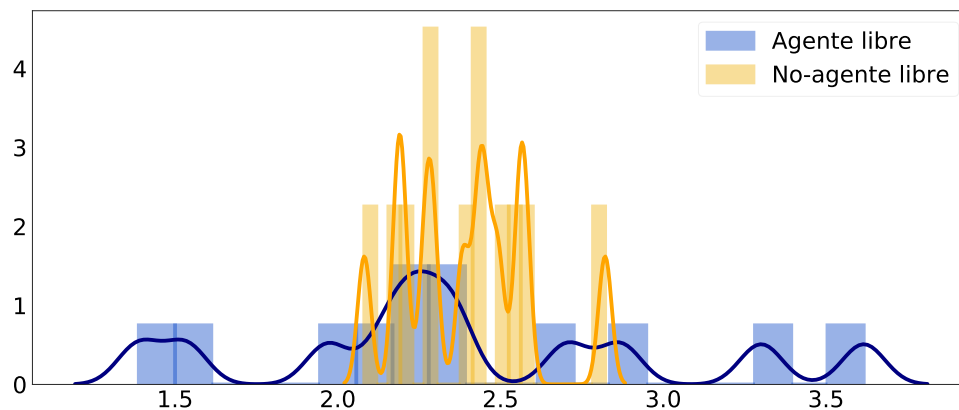
**Carreras permitidas**



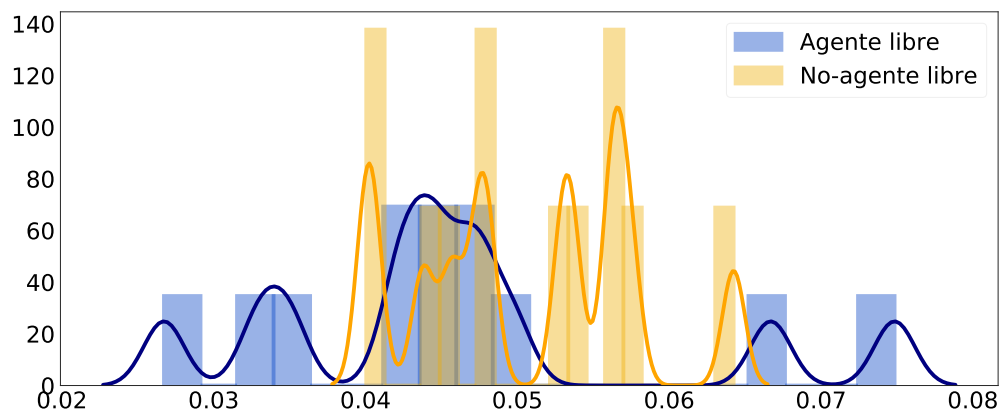
**Carreras ganadas**



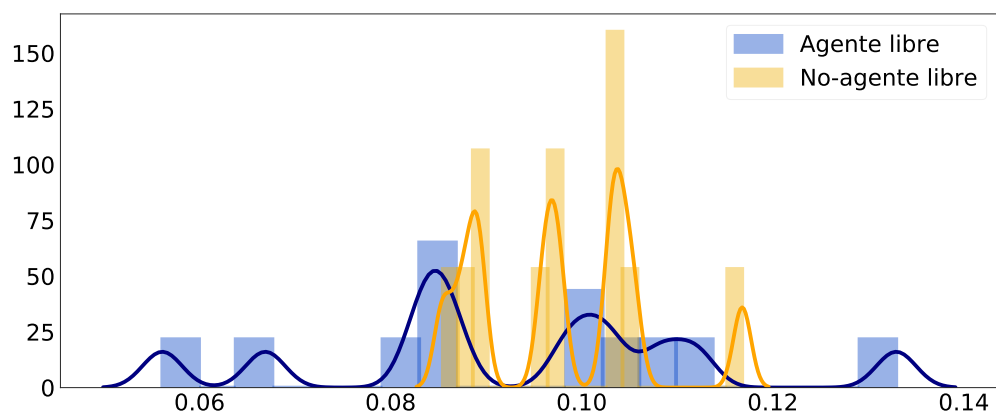
### Comando



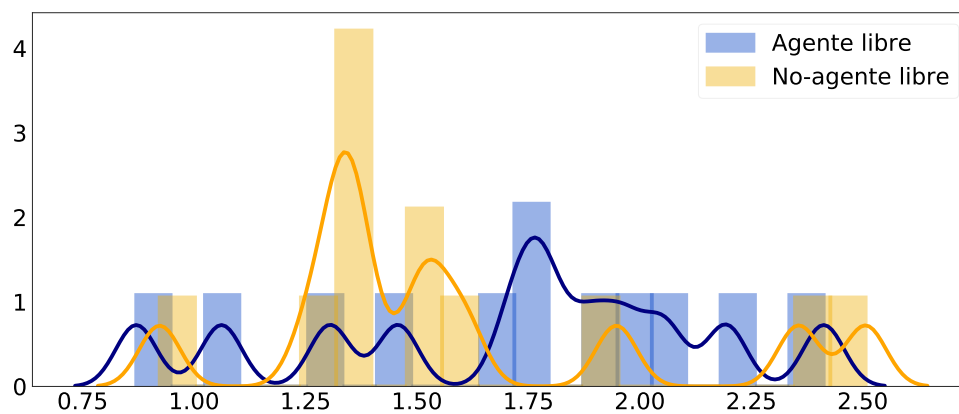
### Control



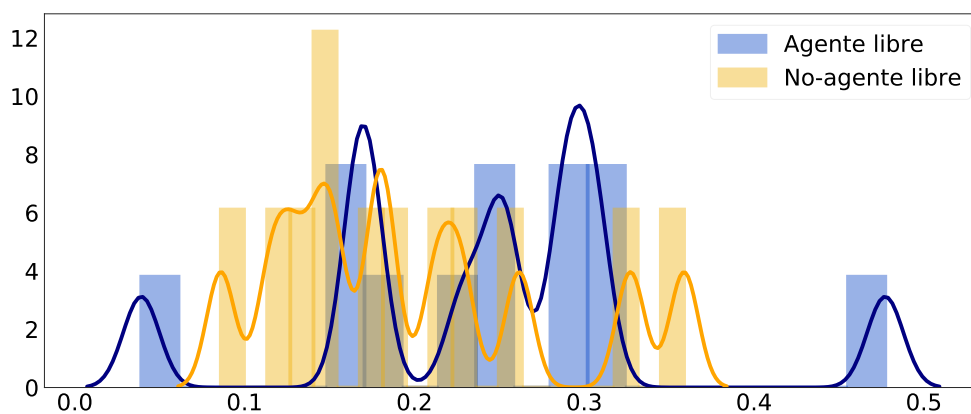
### Dominio



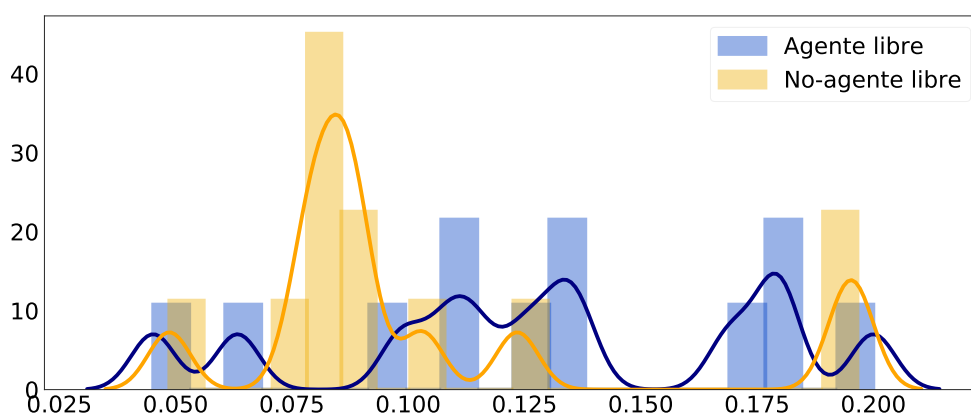
### Inning pitched



### Juegos iniciados

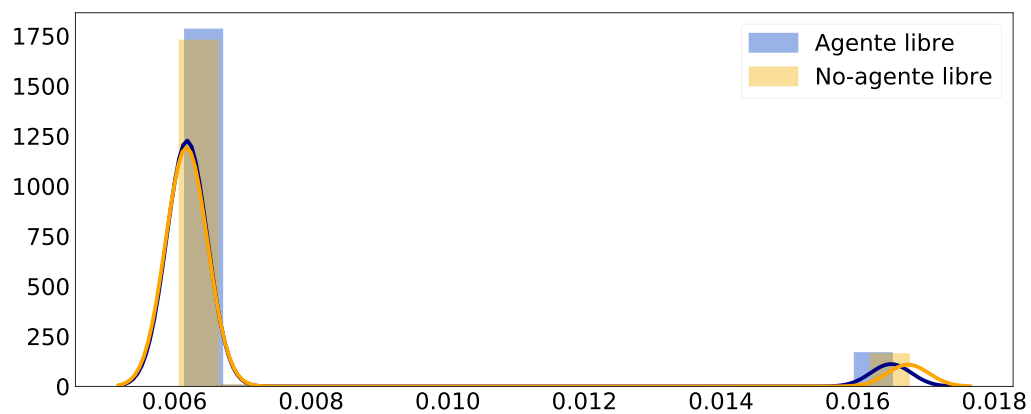


### Losses

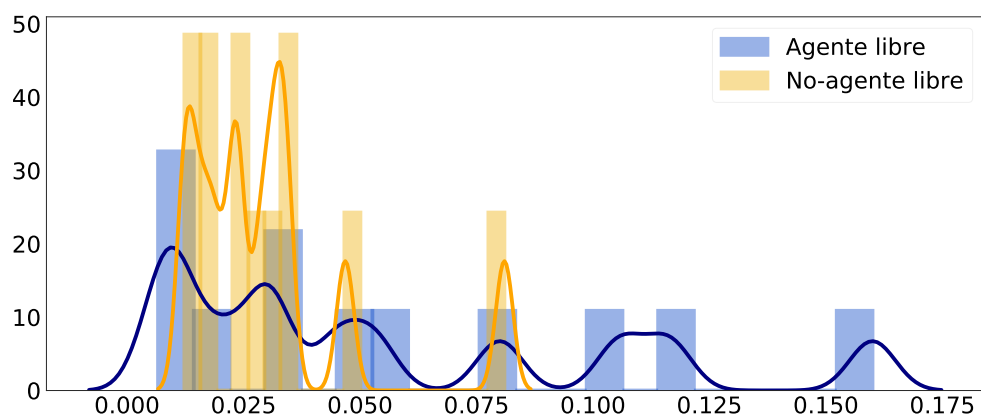




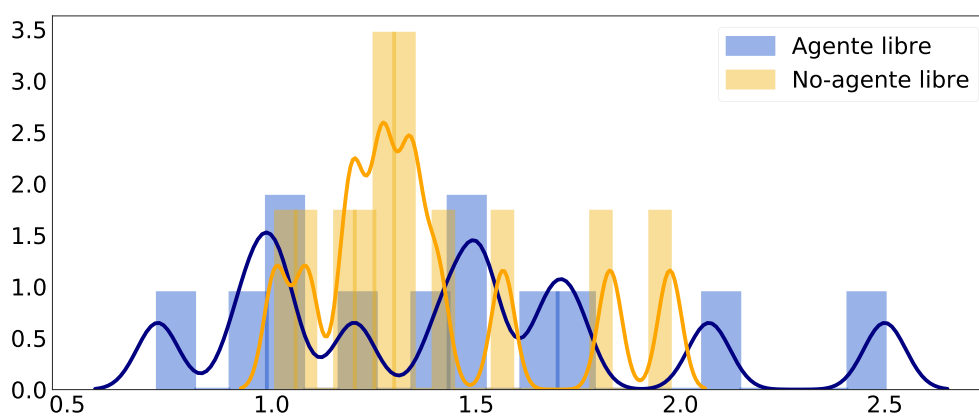
### Partidos jugados



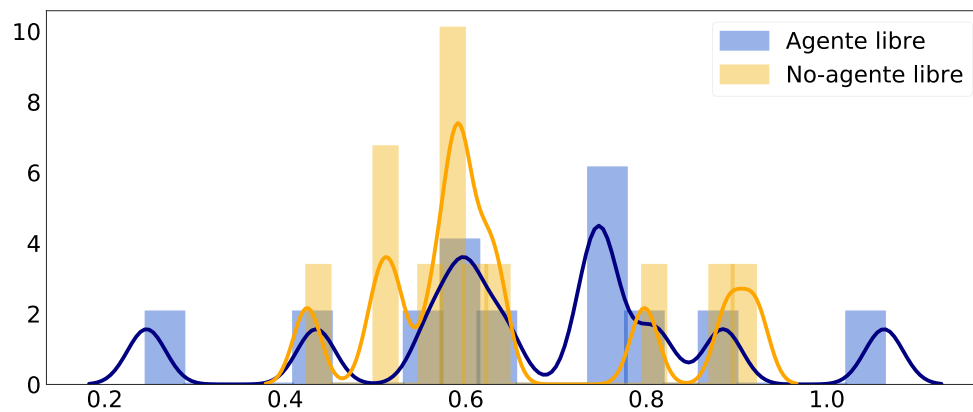
### Salvamentos



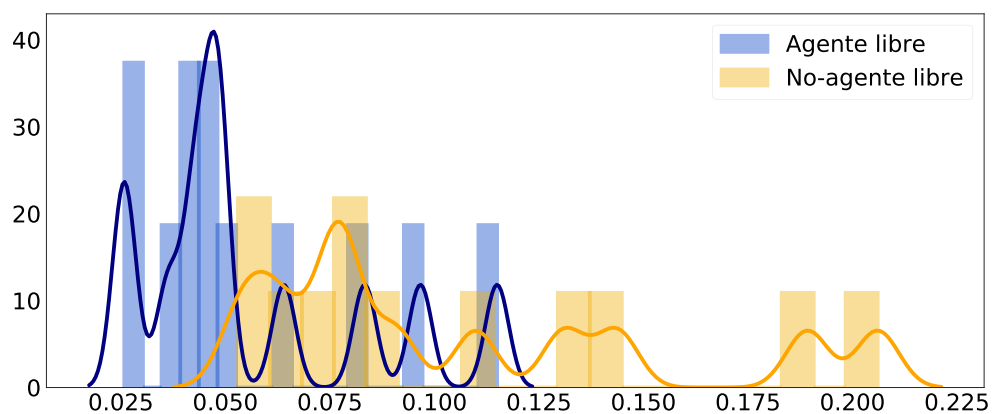
### Strike-outs



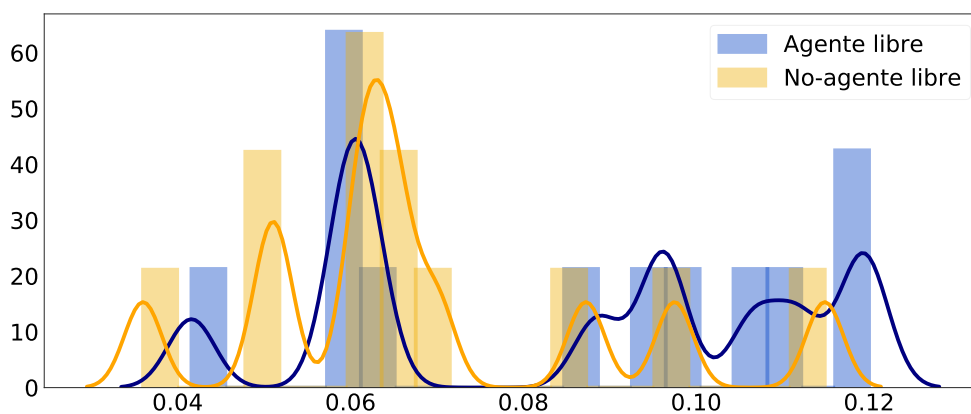
### Bases por bola permitidas



### WHIP

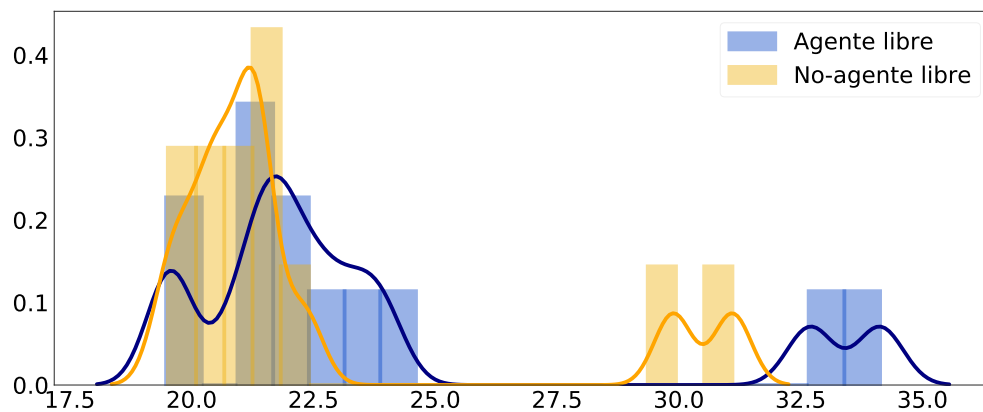


### Wins

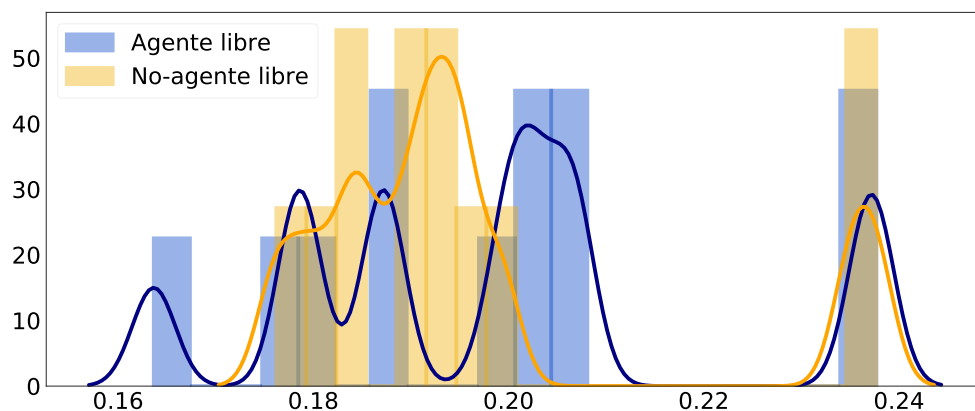


### A.2.7. Estadísticas deportivas por juego - Bateadores

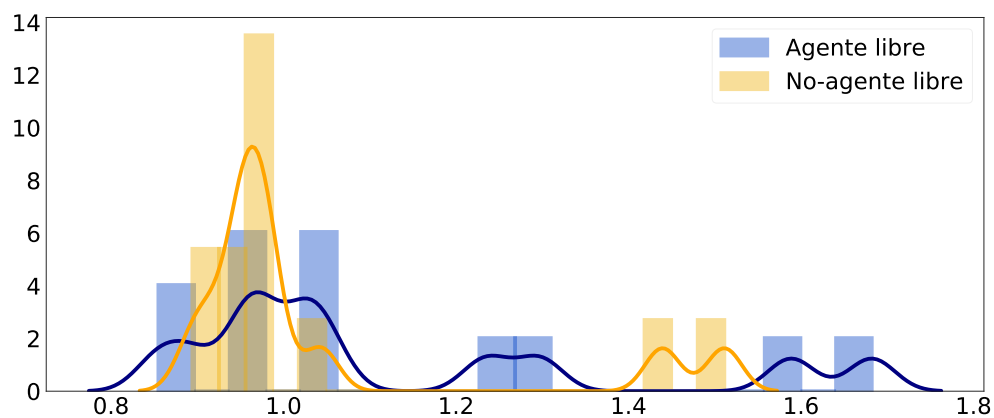
**Al bate**



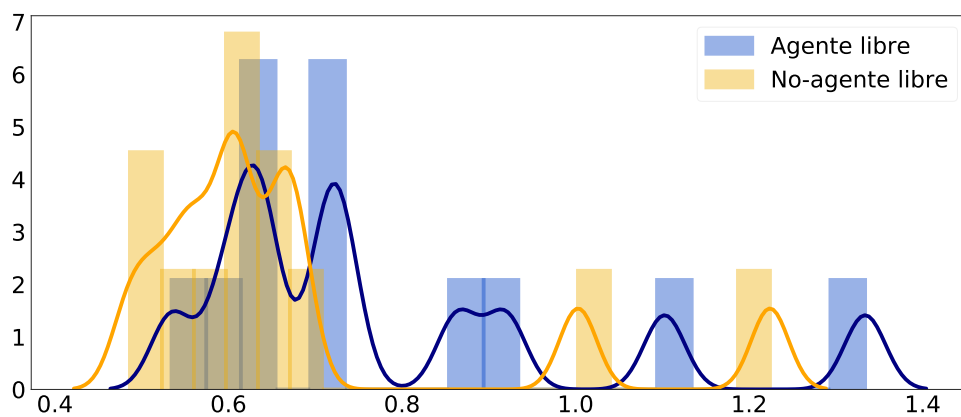
**Bateos promedio**



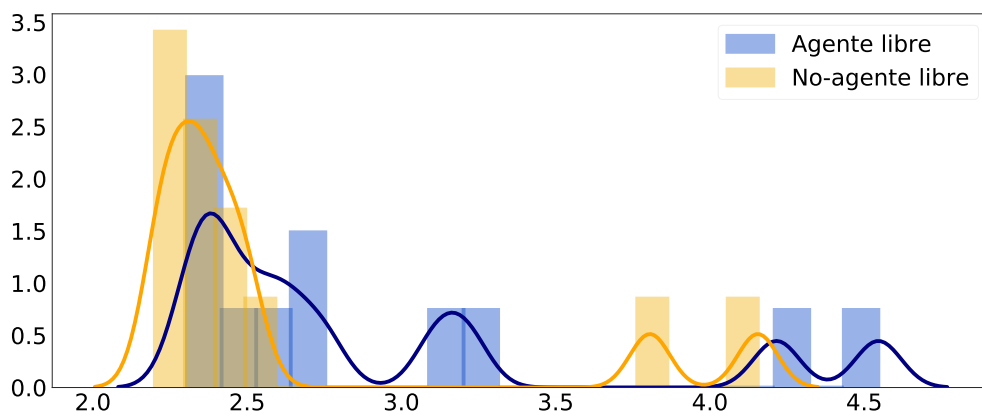
**Dobles**



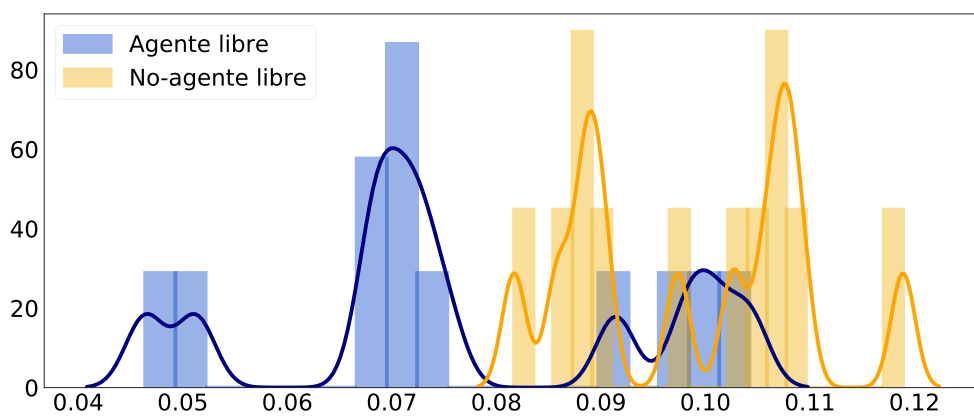
### Home-runs



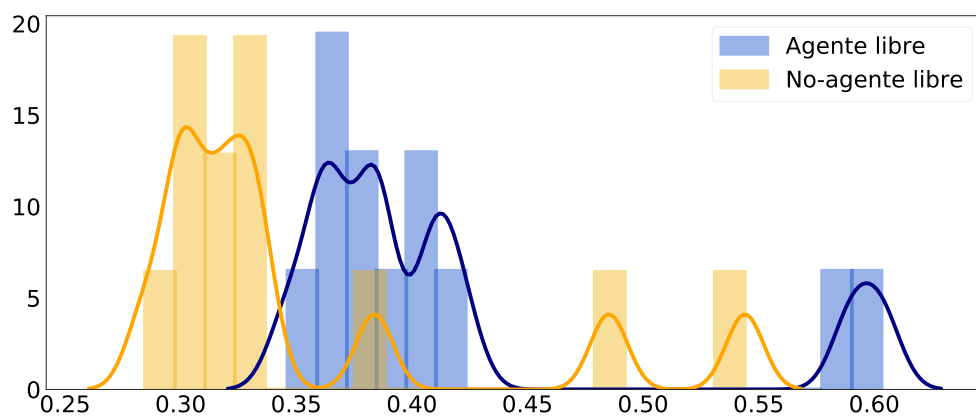
### Carreras limpias



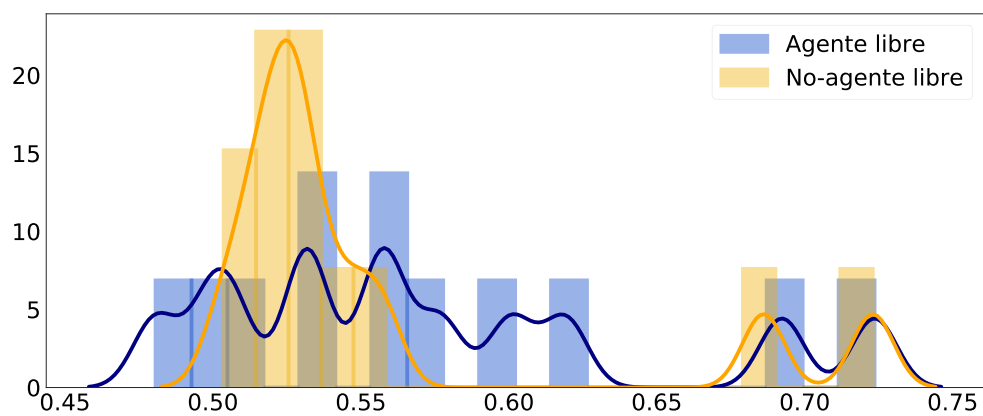
### Triples



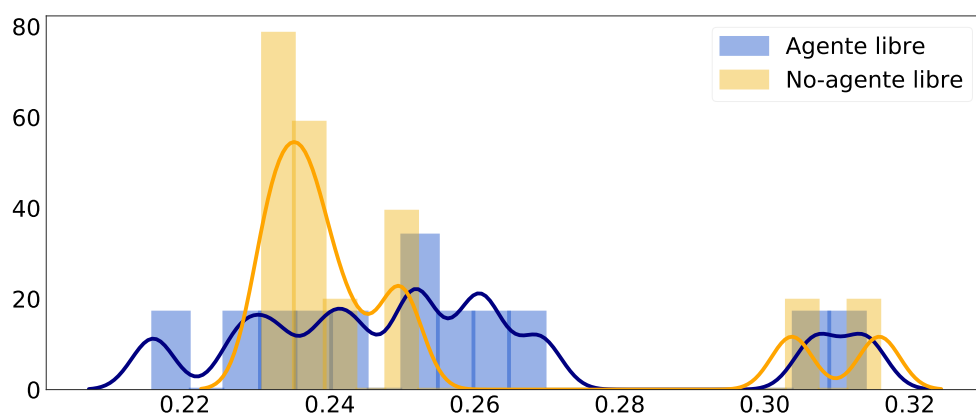
**%Juegos iniciados**

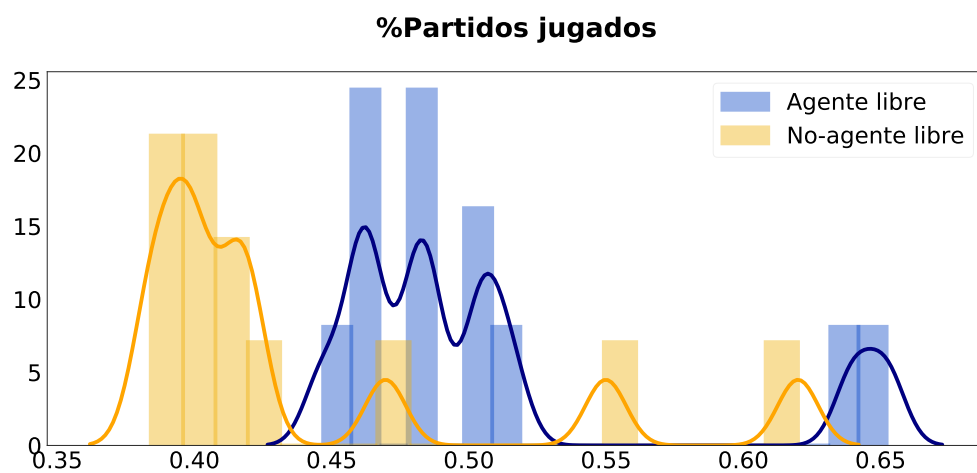


**%On-base-plus-slugging**

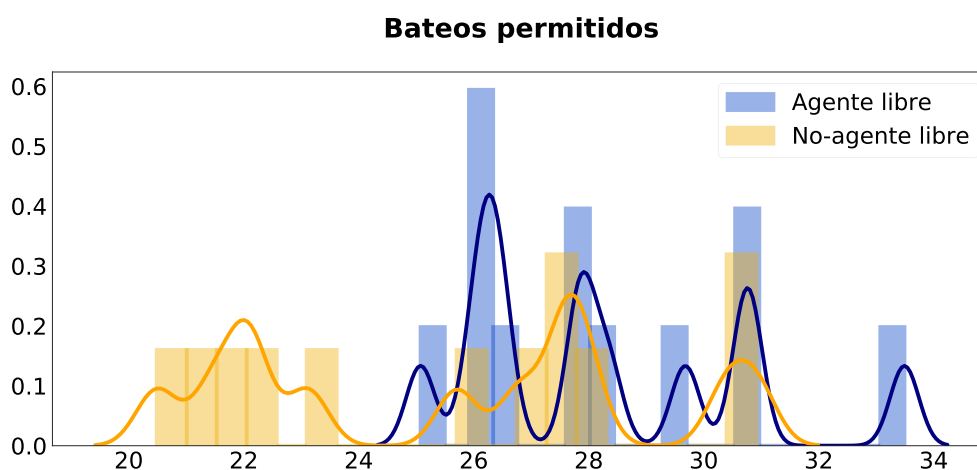


**%Embasado**

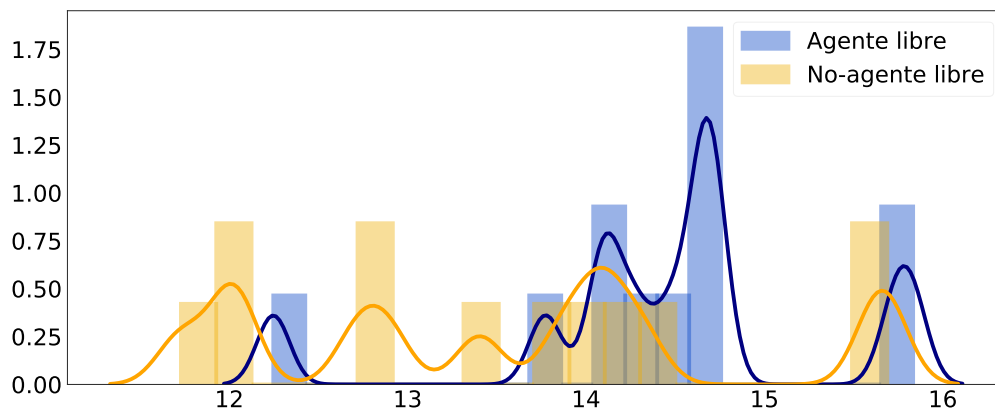




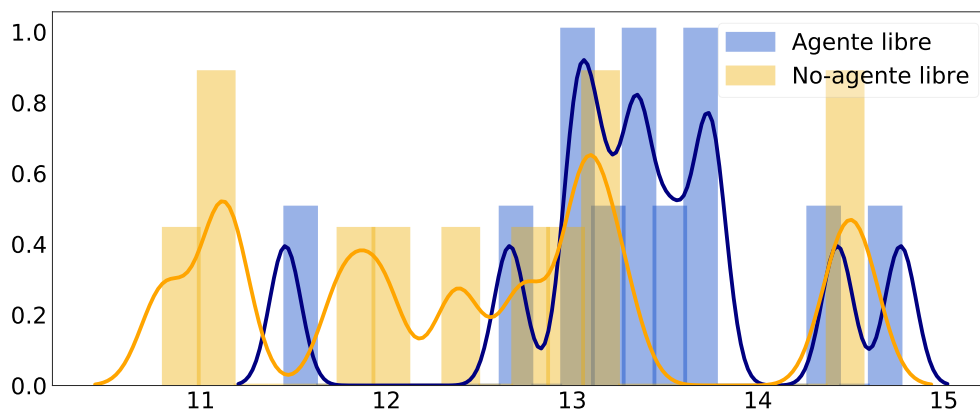
#### A.2.8. Estadísticas deportivas por cada 10 juegos - Filderos



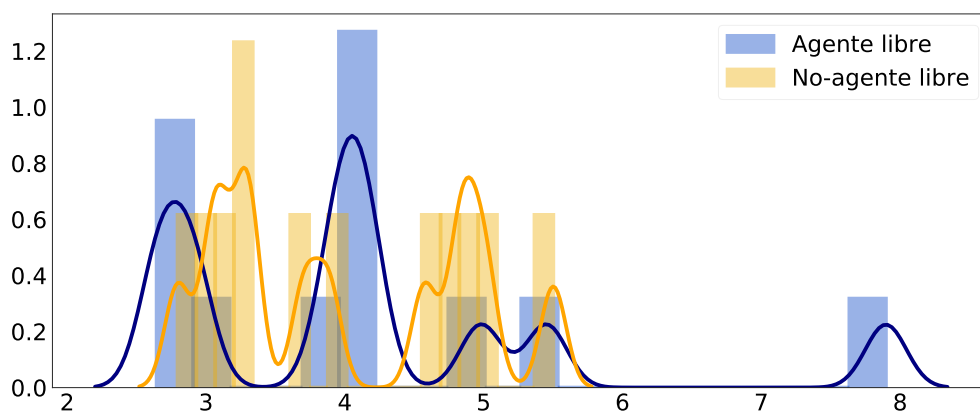
### Carreras permitidas



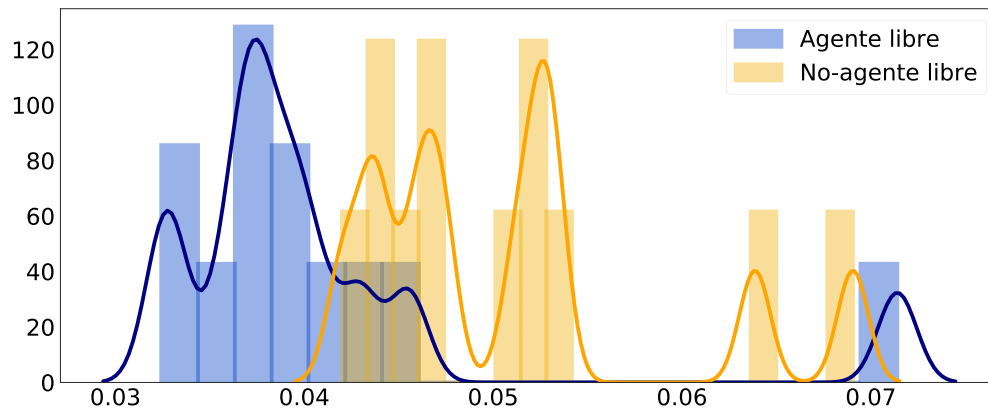
### Carreras ganadas



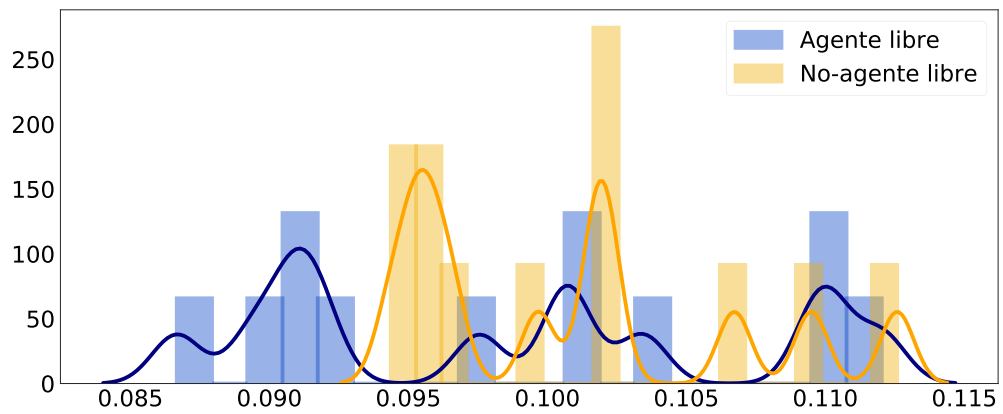
### Comando



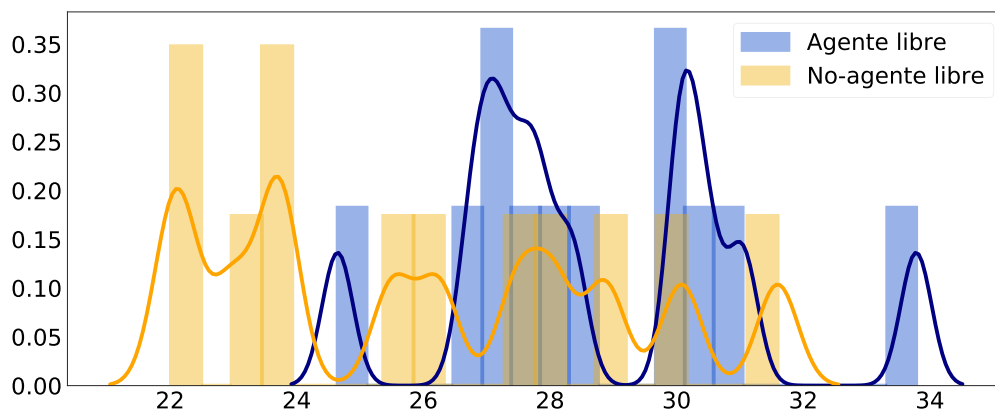
### Control



### Dominio

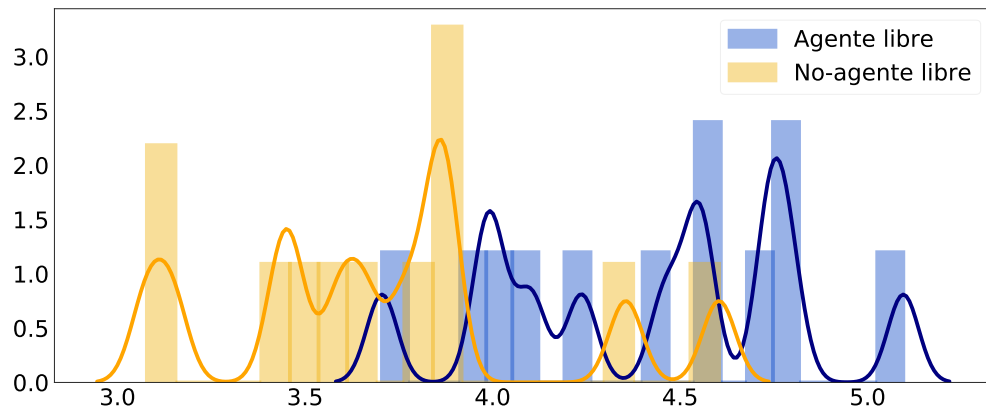


### Inning pitched

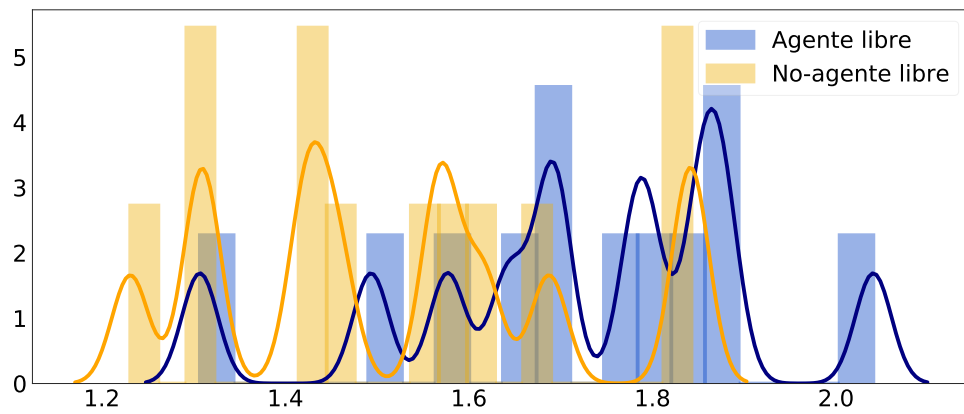




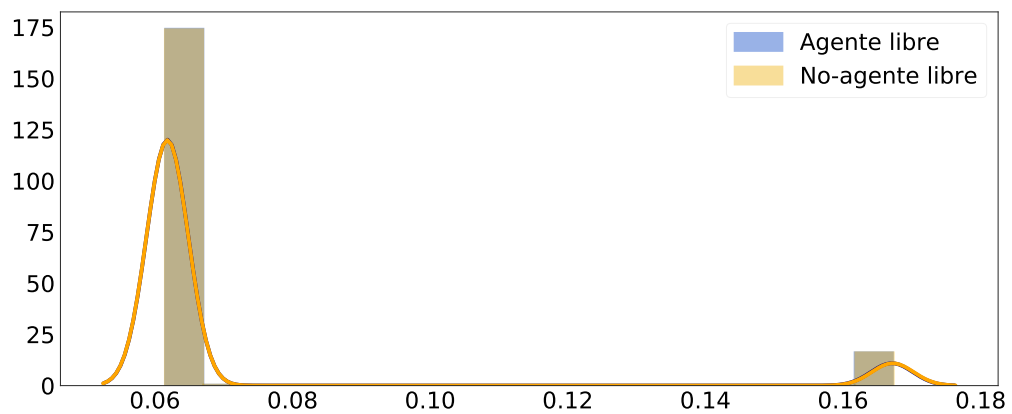
### Juegos iniciados



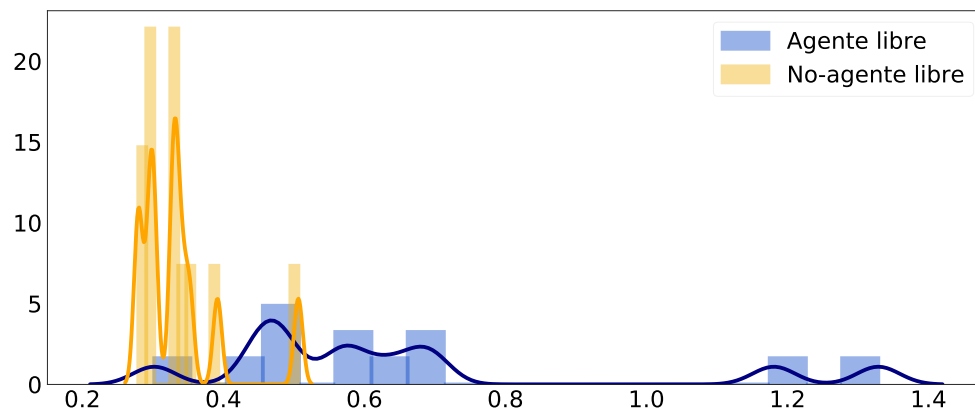
### Losses



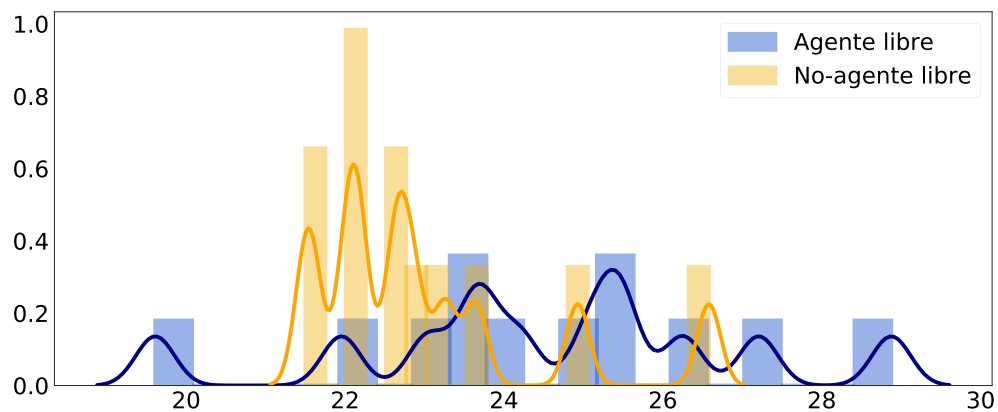
### Partidos jugados



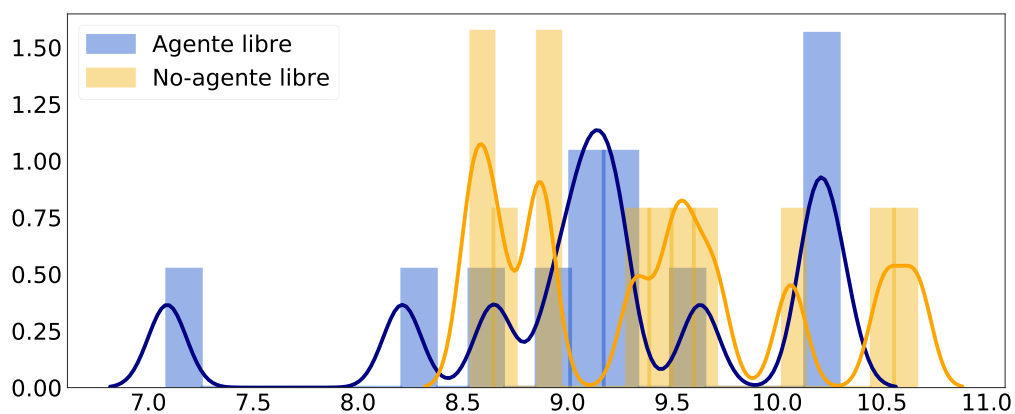
### Salvamentos



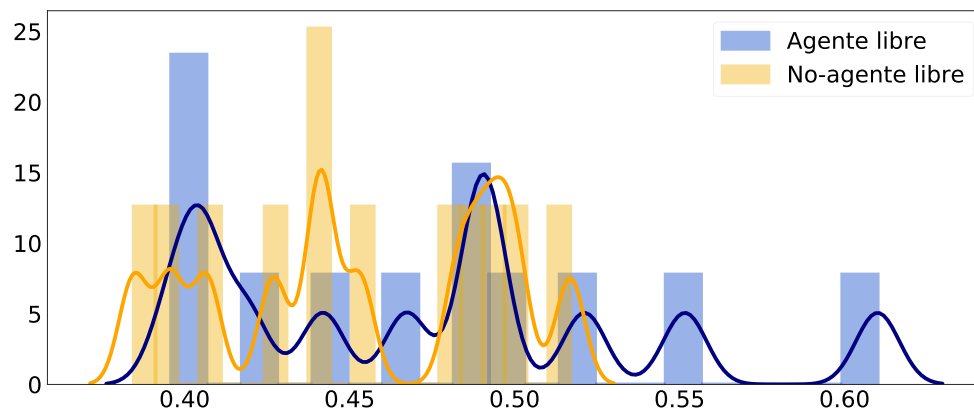
### Strike-outs



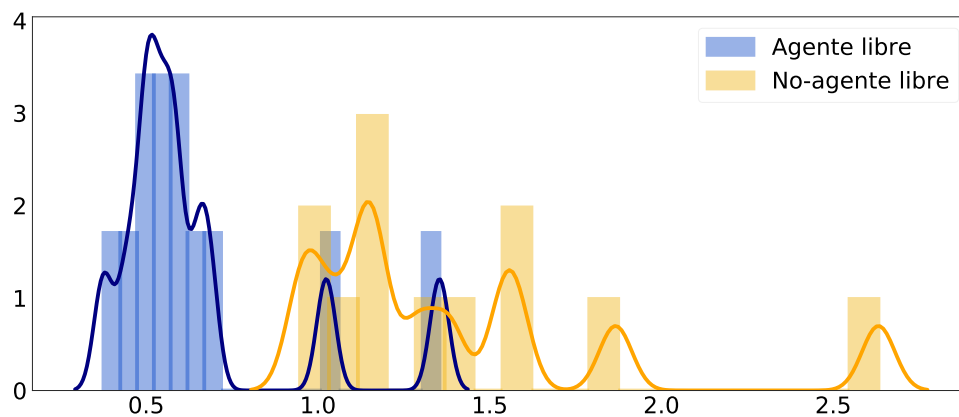
### Bases por bola permitidas



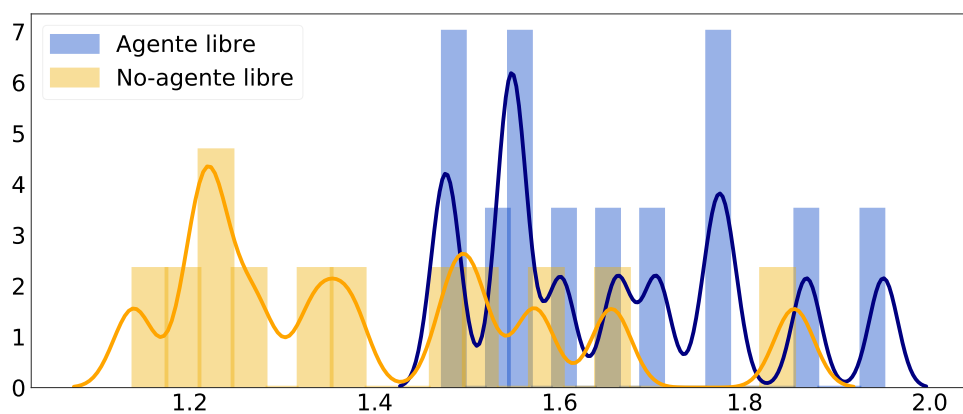
### WAR



### WHIP

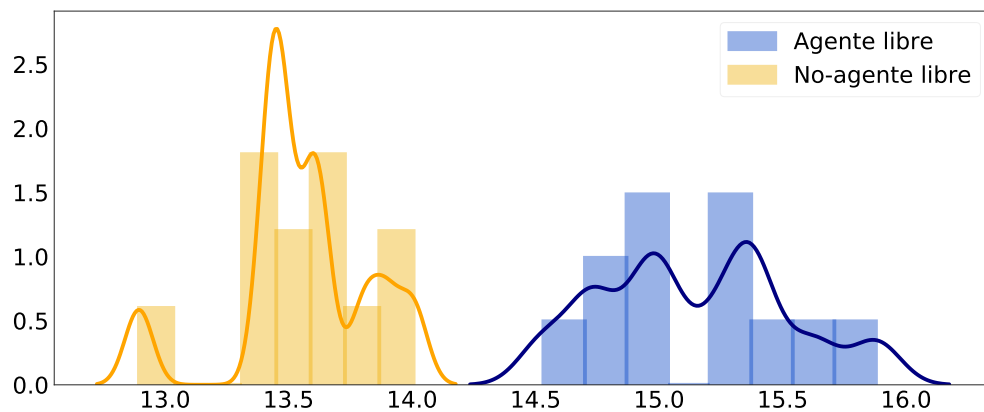


### Wins

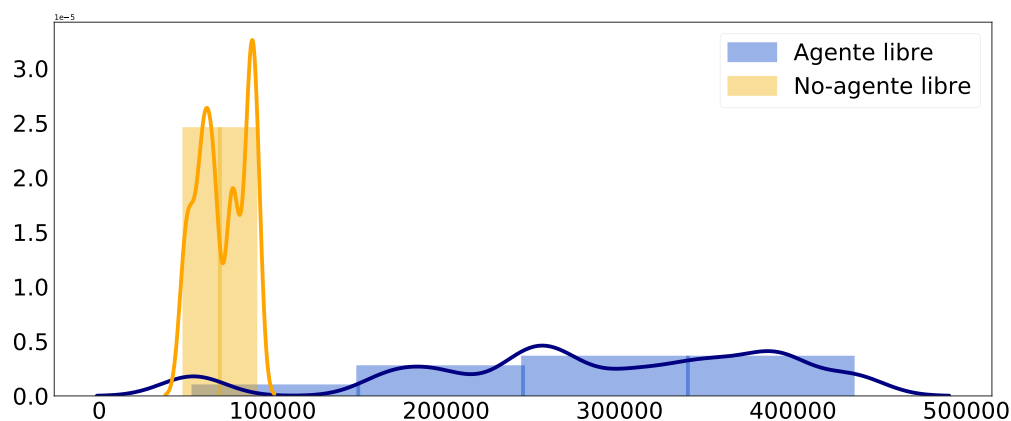


### A.2.9. Datos contactuales - Hitters

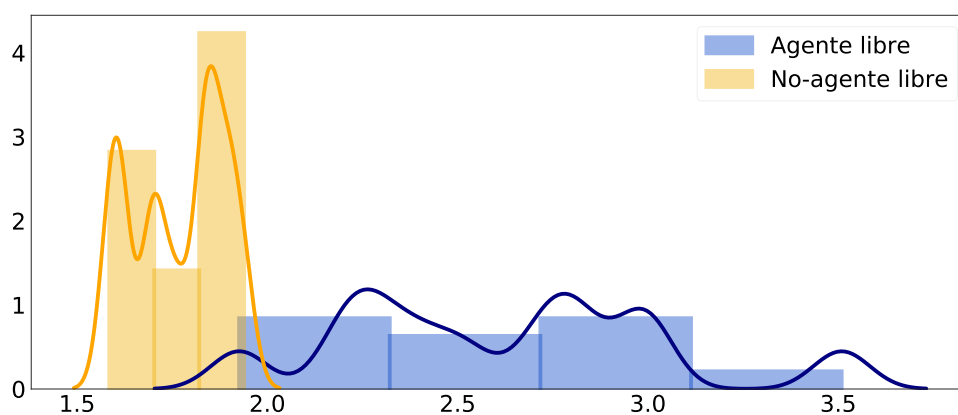
**ln(Sueldo ajustado)**



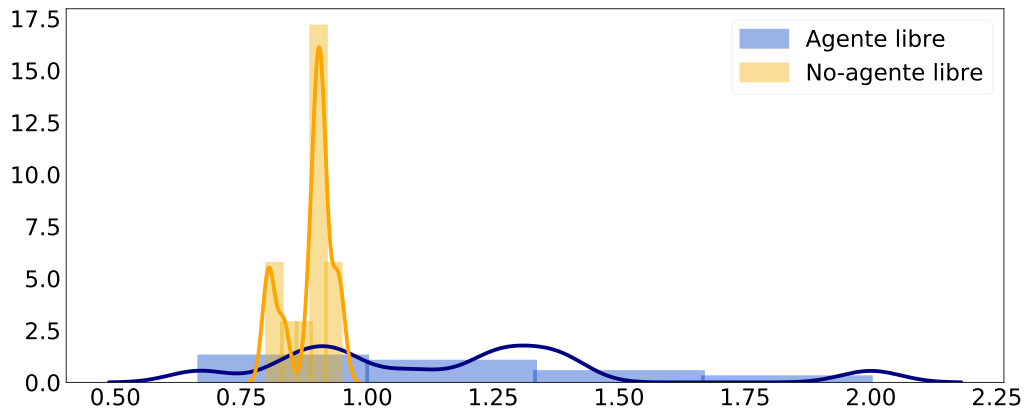
**Bono por firma[100k\$]**



**Años de contrato**

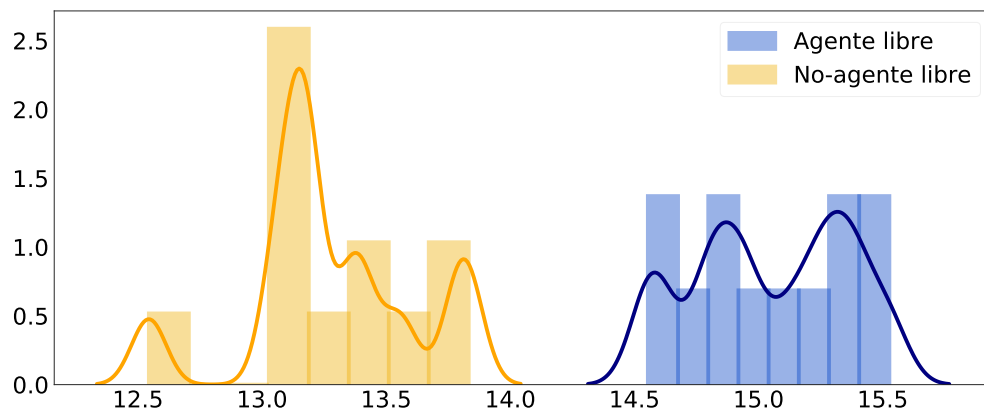


### Antigüedad

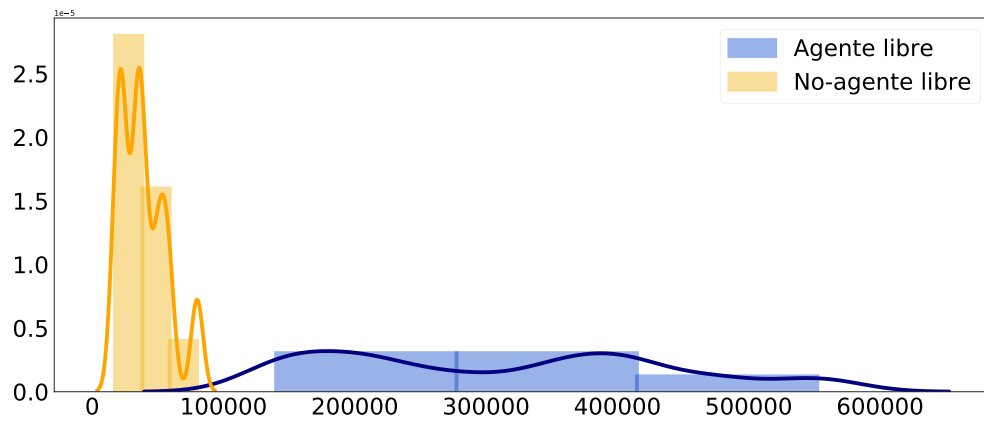


#### A.2.10. Datos contactuales - Fielders

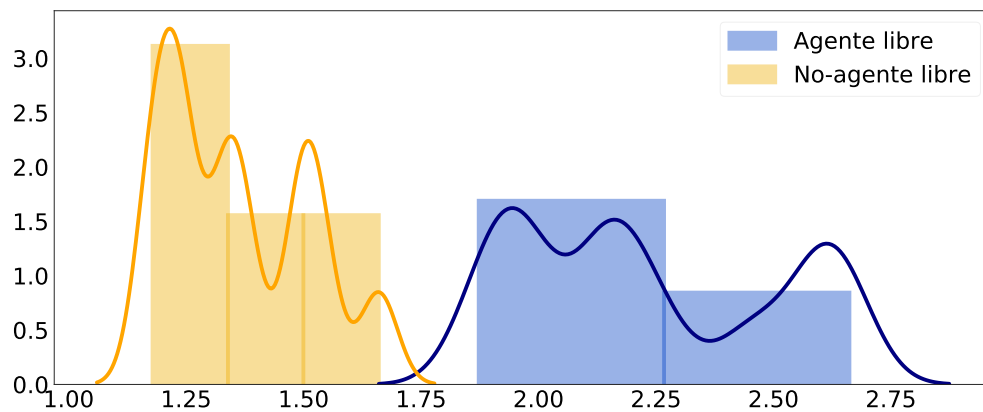
### ln(Sueldo ajustado)



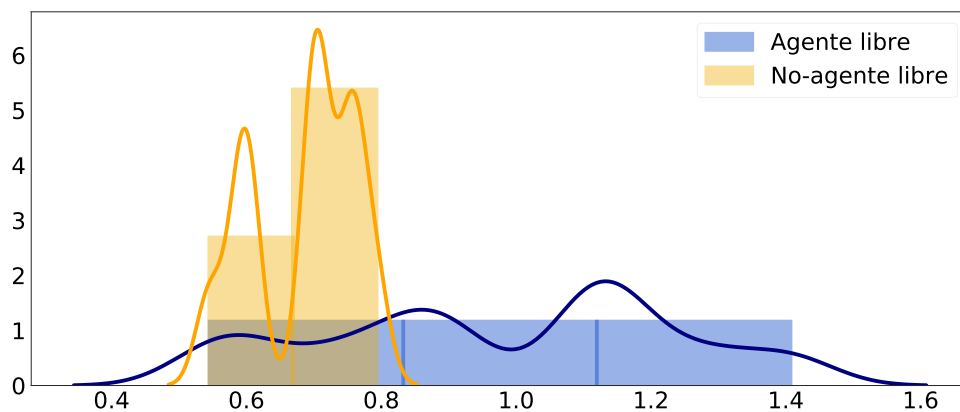
### Bono por firma[100k\$]



### Años de contrato

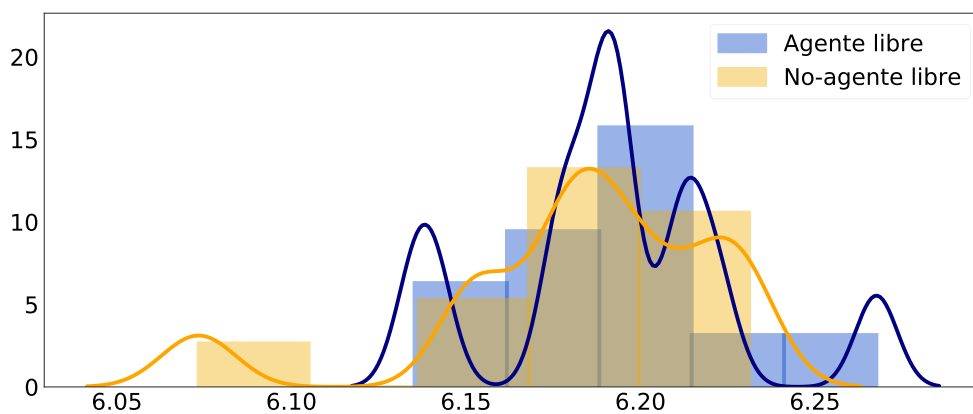


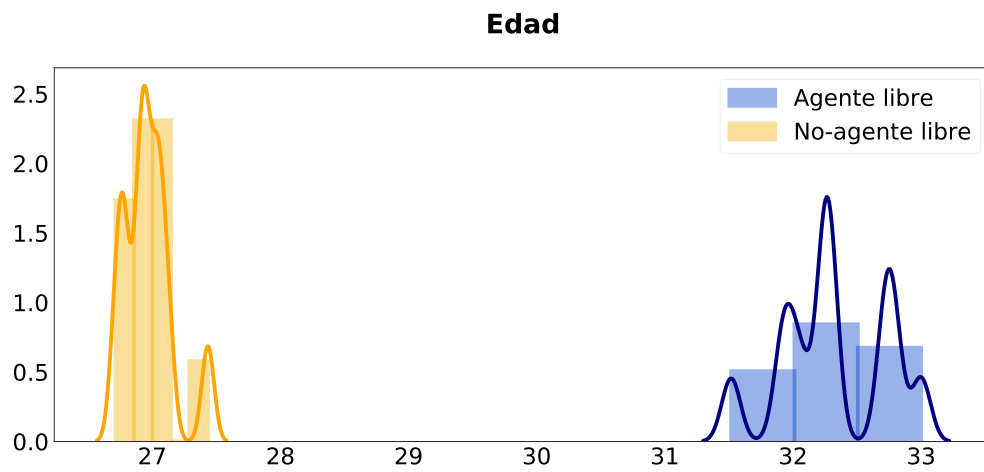
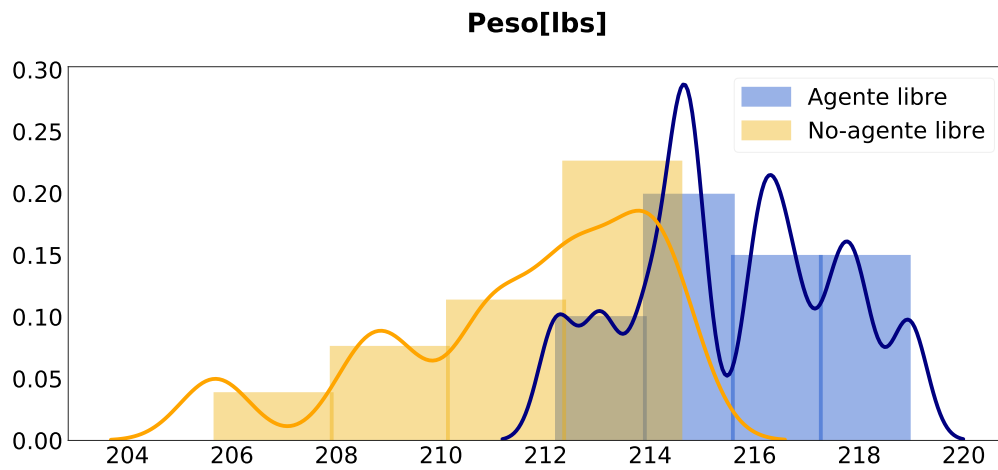
### Antigüedad



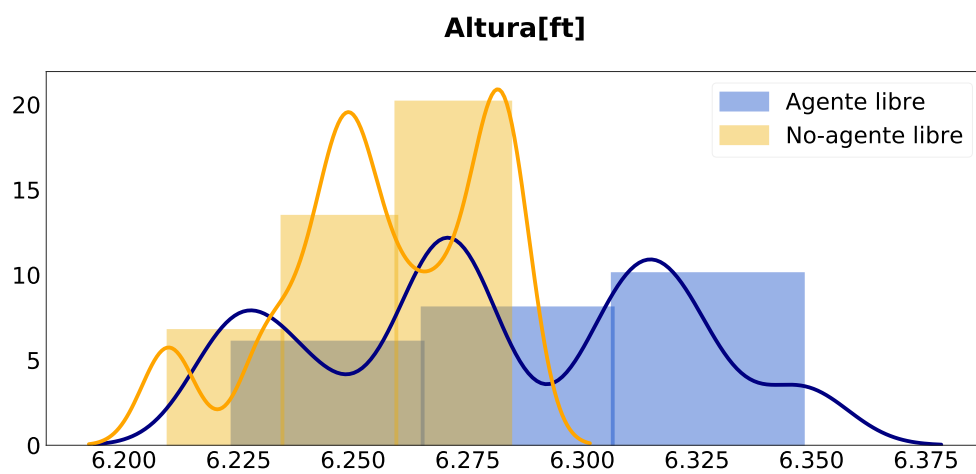
#### A.2.11. Datos generales - Bateadores

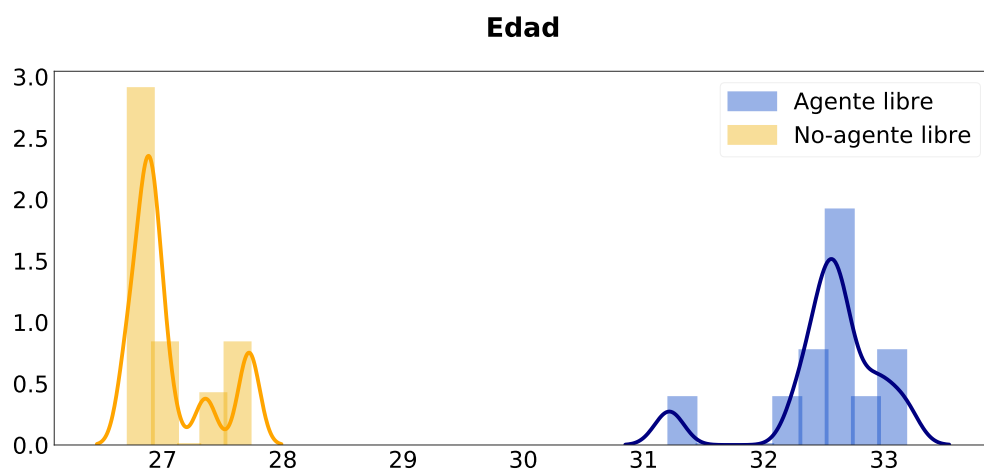
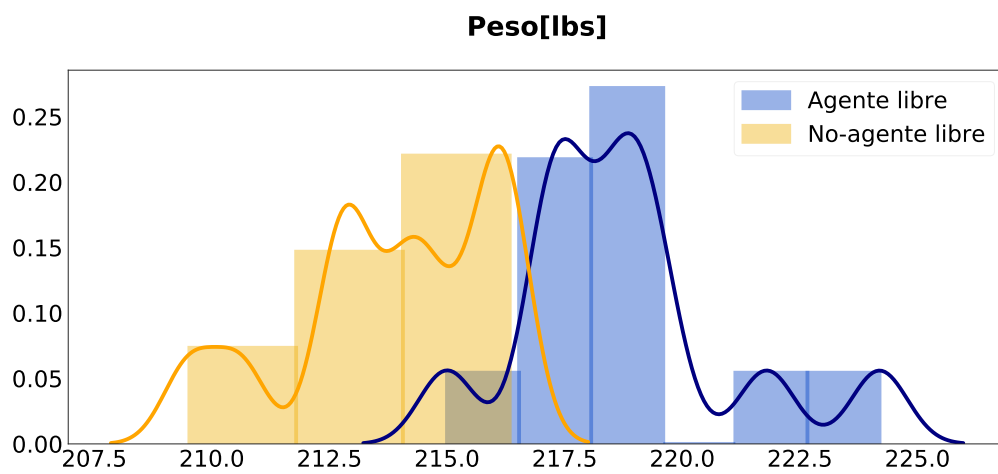
### Altura[ft]





#### A.2.12. Datos generales - Fielders



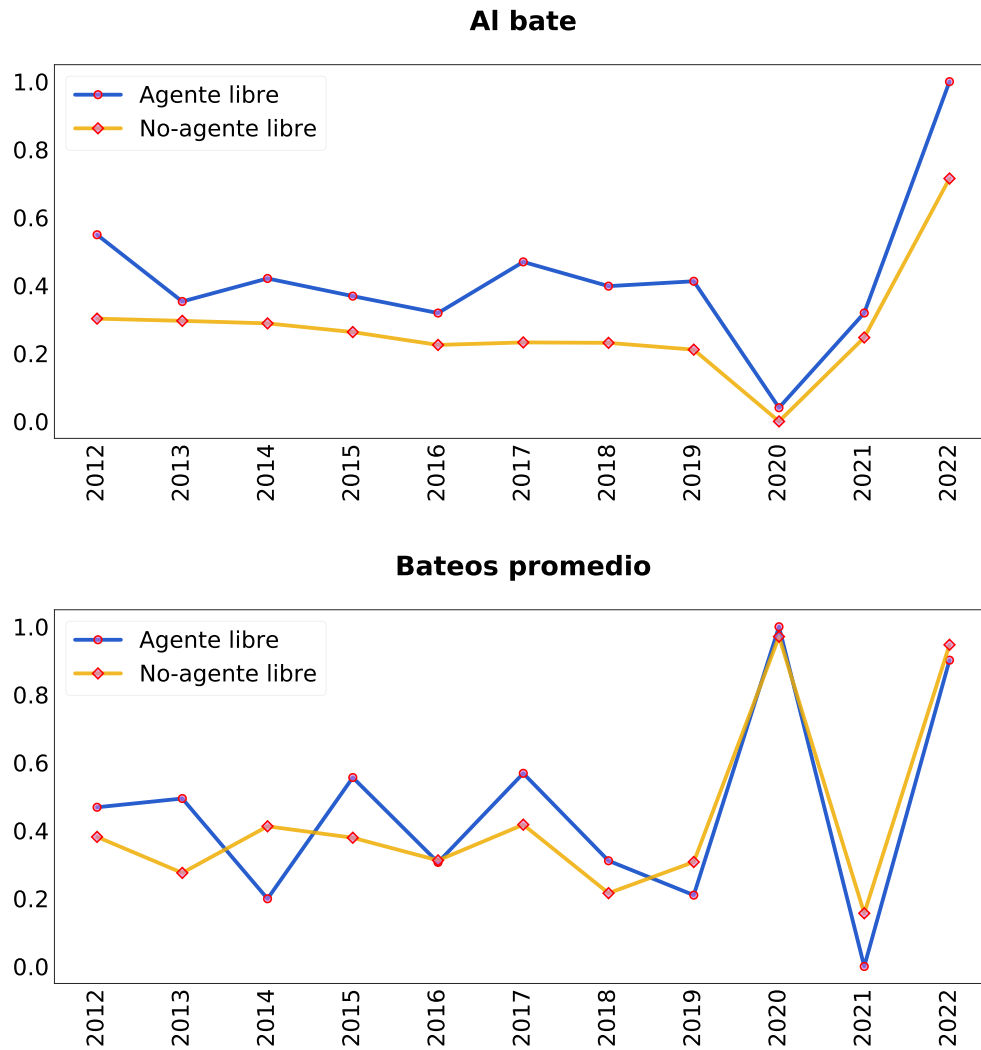




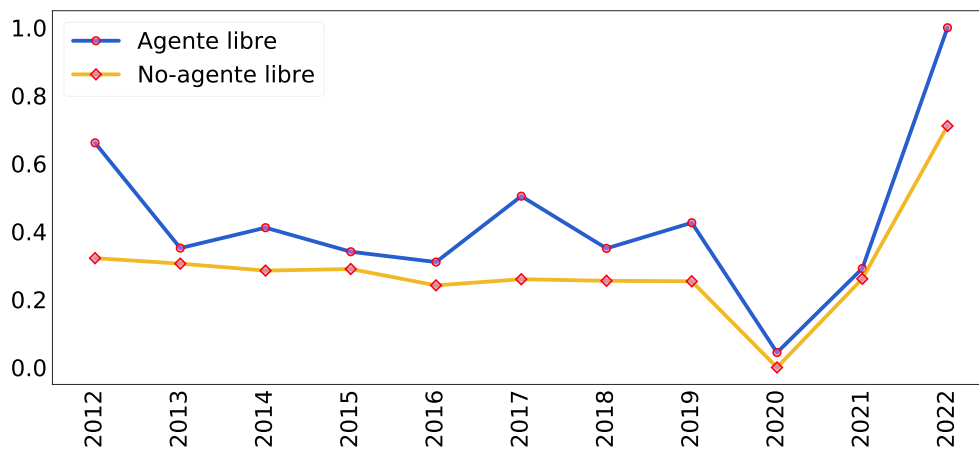
### A.3. Series de tiempo

En esta sección se muestran los promedios anuales de las mismas variables usadas en las dos secciones anteriores. Previo a obtener los promedios, se normalizaron los datos para restringir los valores al intervalo  $[0, 1]$ , que abarca la base de datos.

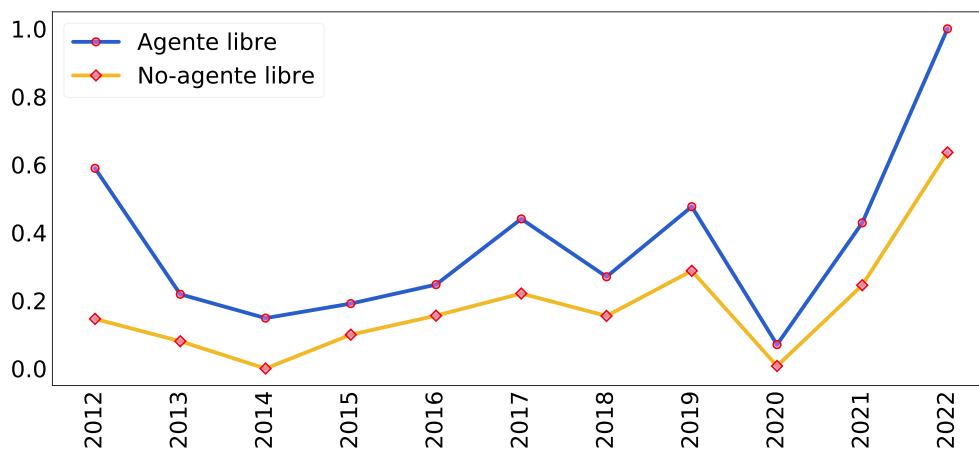
#### A.3.1. Estadísticas deportivas acumuladas - Bateadores



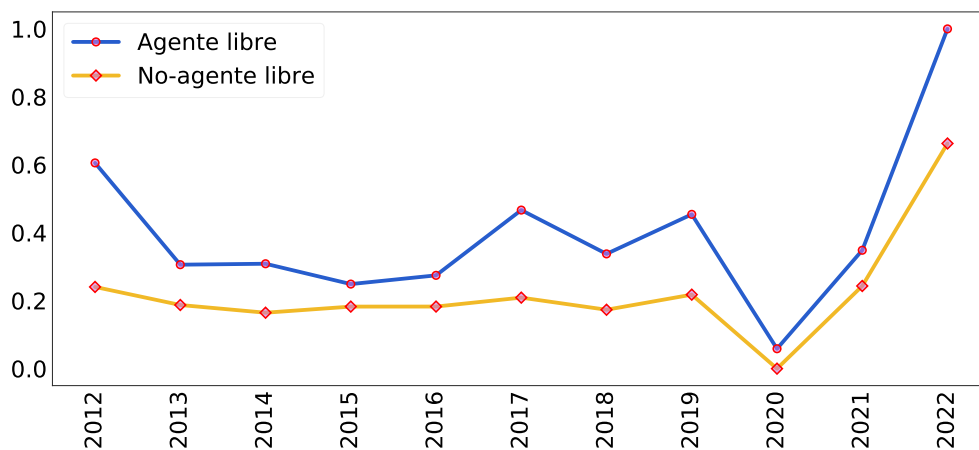
### Dobles



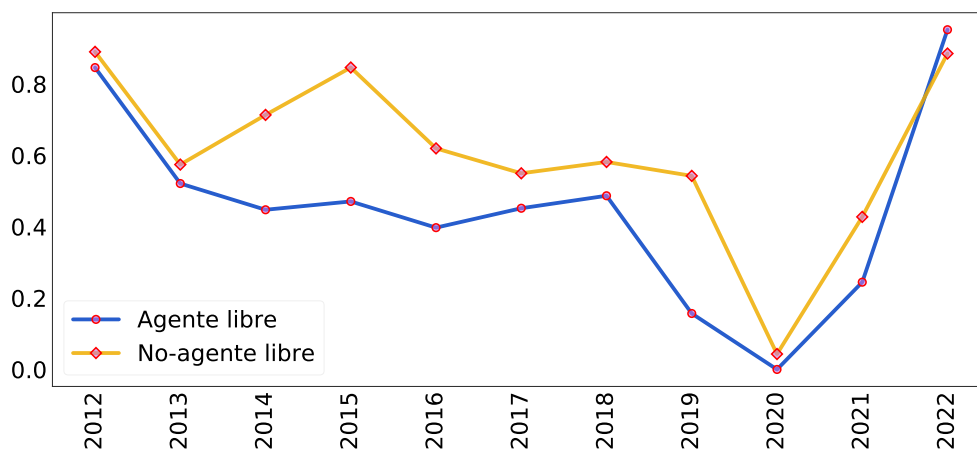
### Home-runs



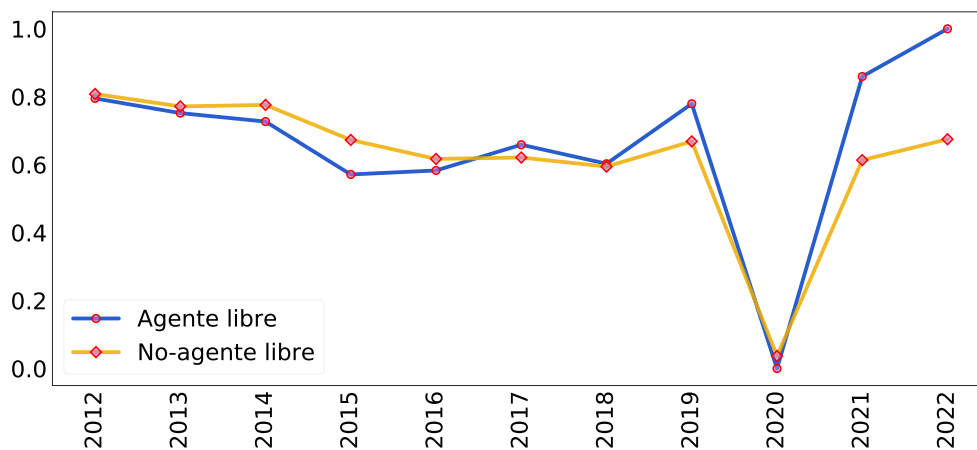
### Carreras limpias



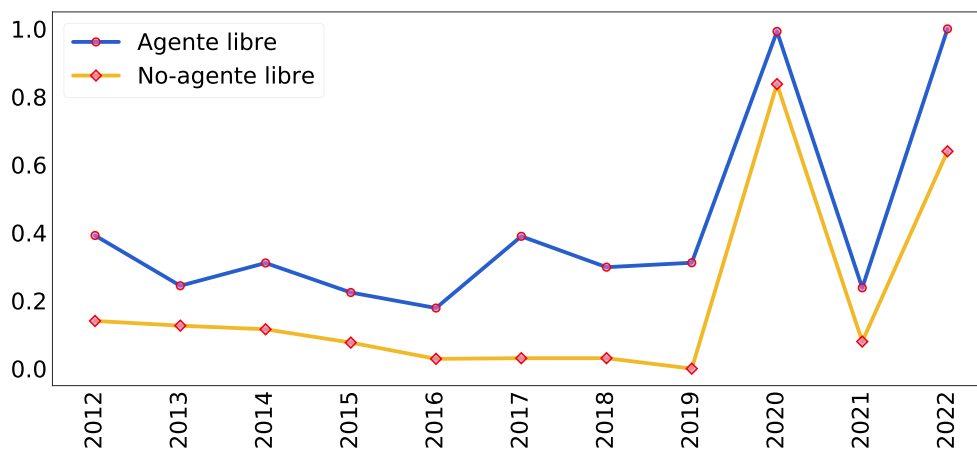
### Triples



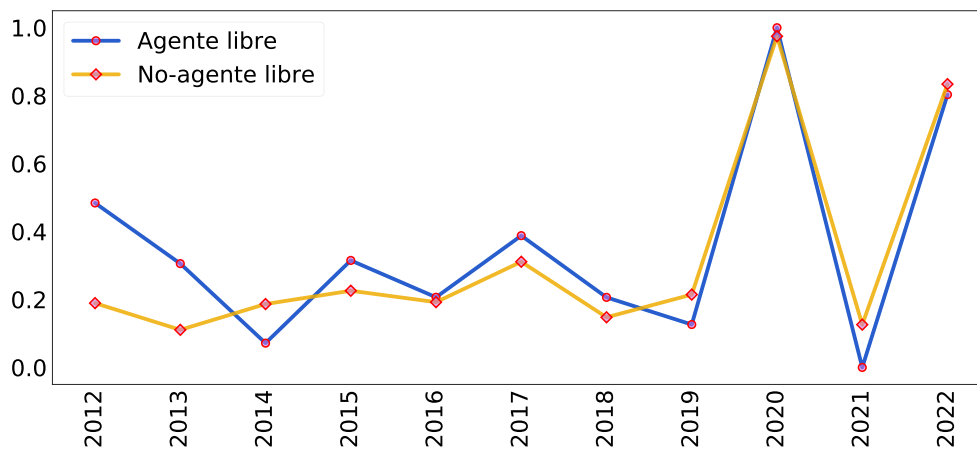
### WAR



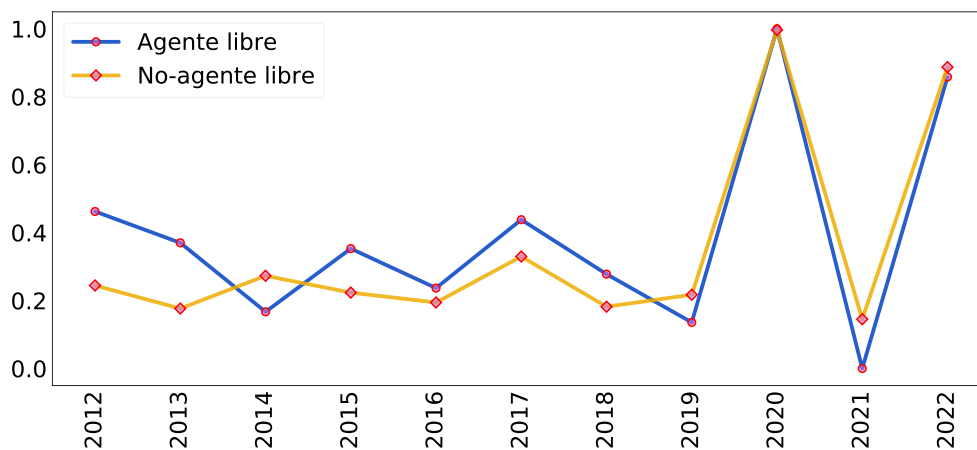
### %Juegos iniciados



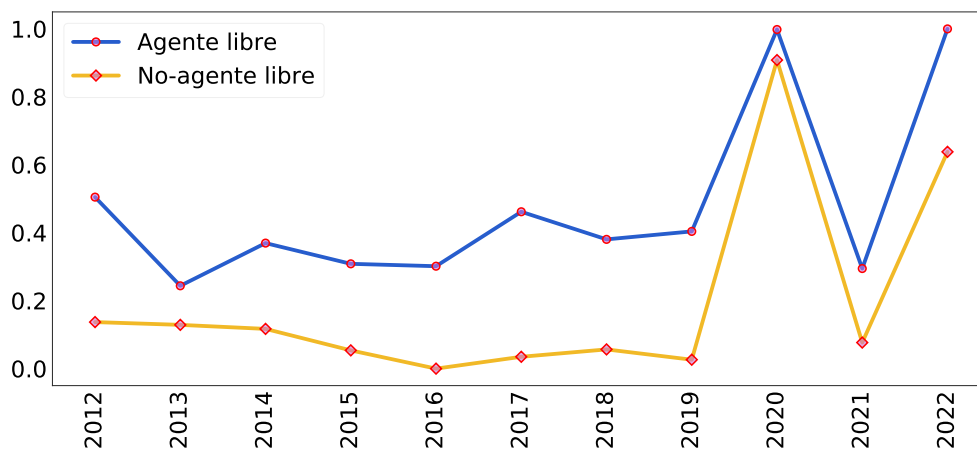
### %On-base-plus-slugging

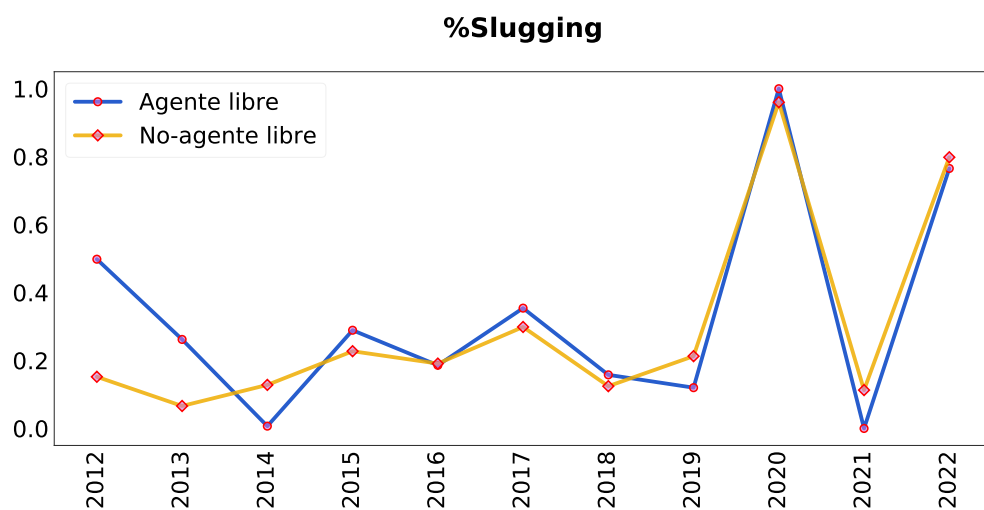


### %Embasado

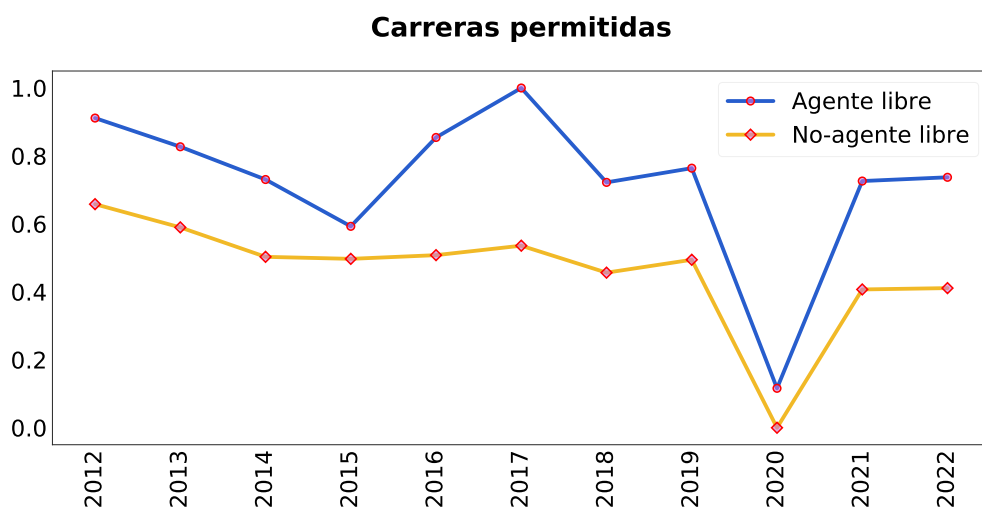
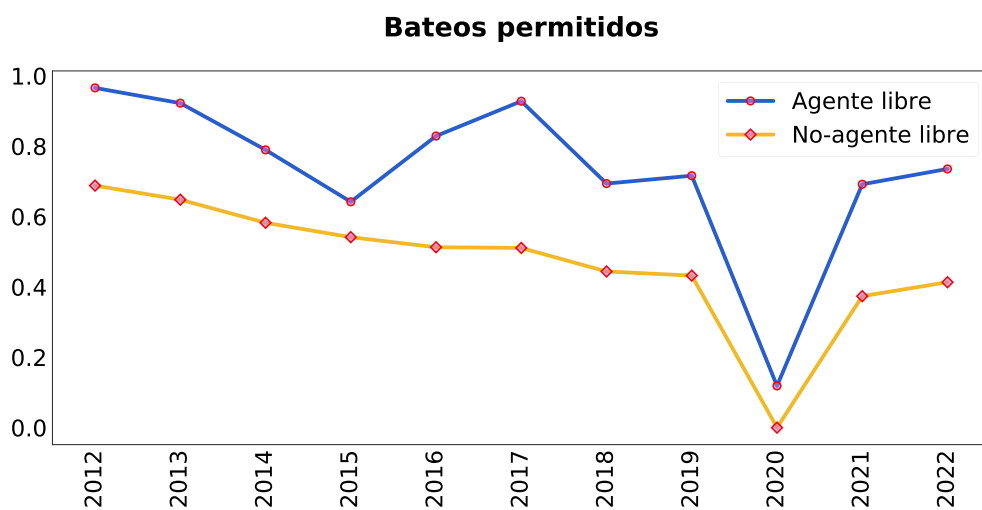


### %Partidos jugados

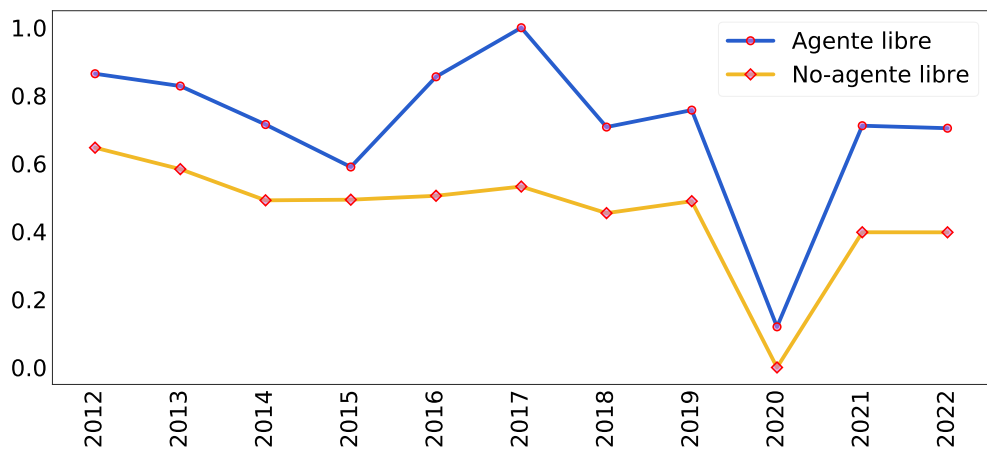




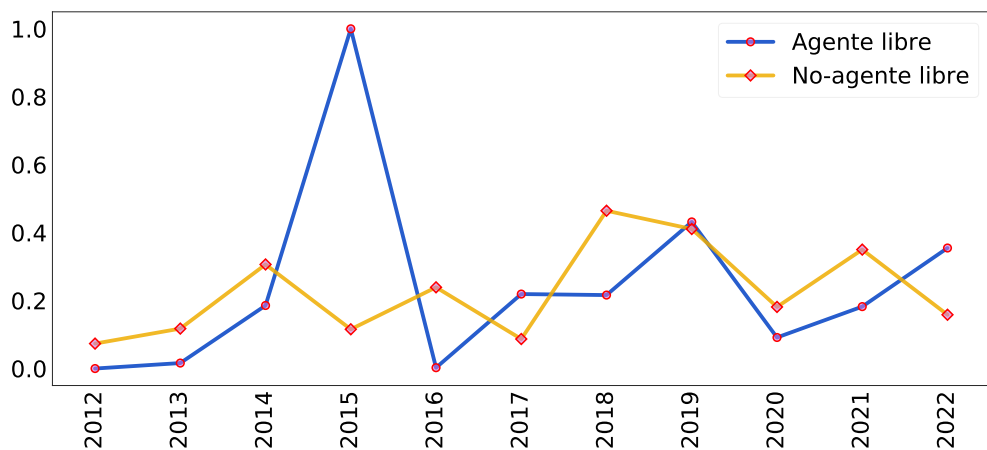
### A.3.2. Estadísticas deportivas acumuladas - Filderos



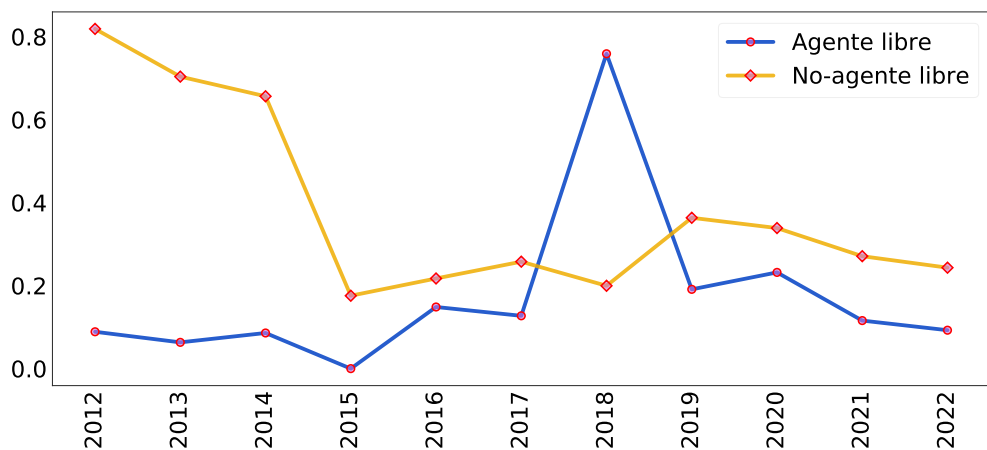
### Carreras ganadas



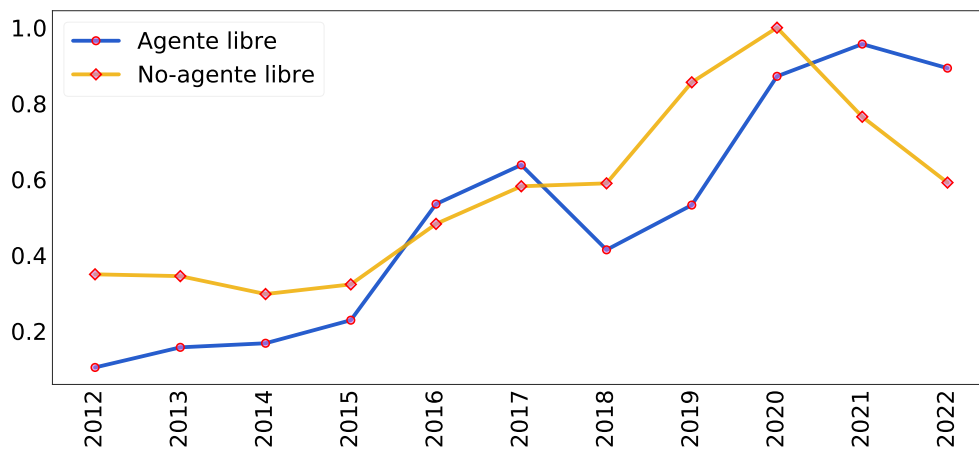
### Comando



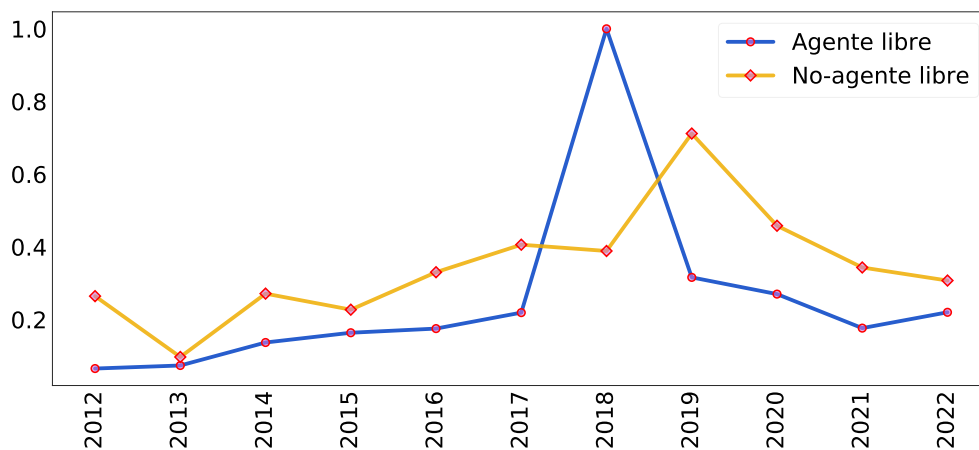
### Control



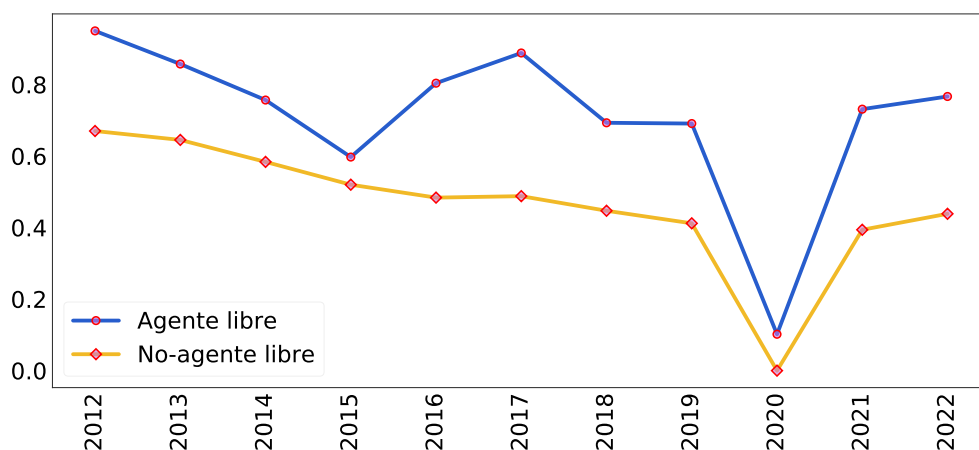
### Dominio



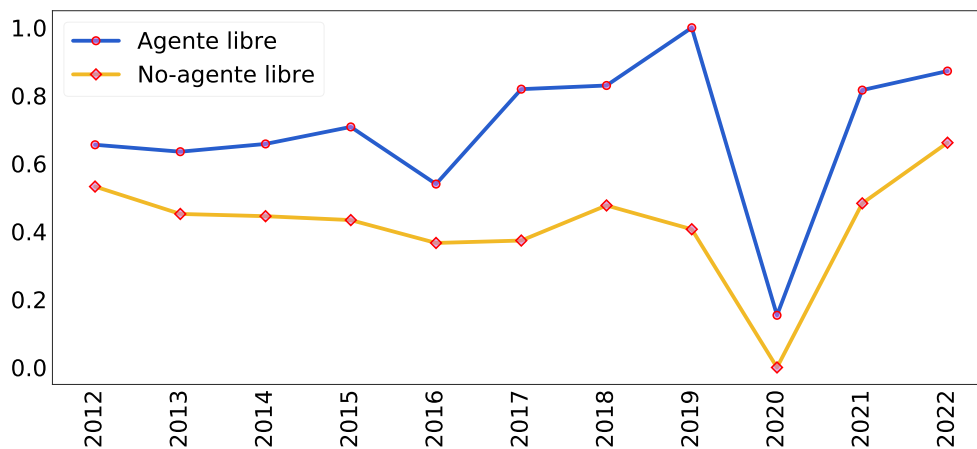
### %Carreras ganadas



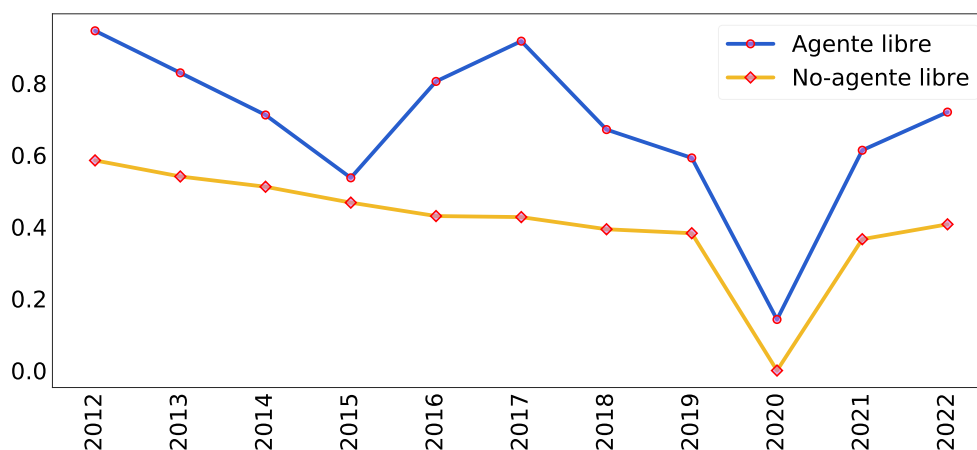
### Inning pitched



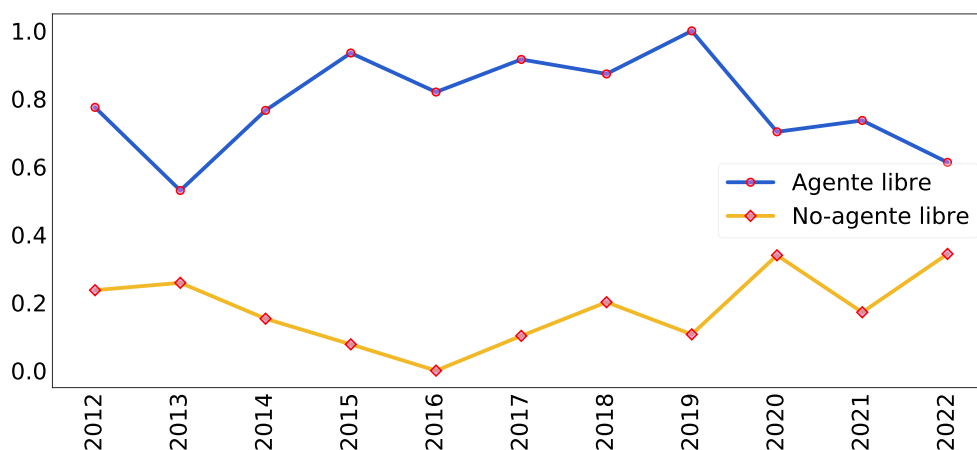
### Juegos iniciados



### Losses

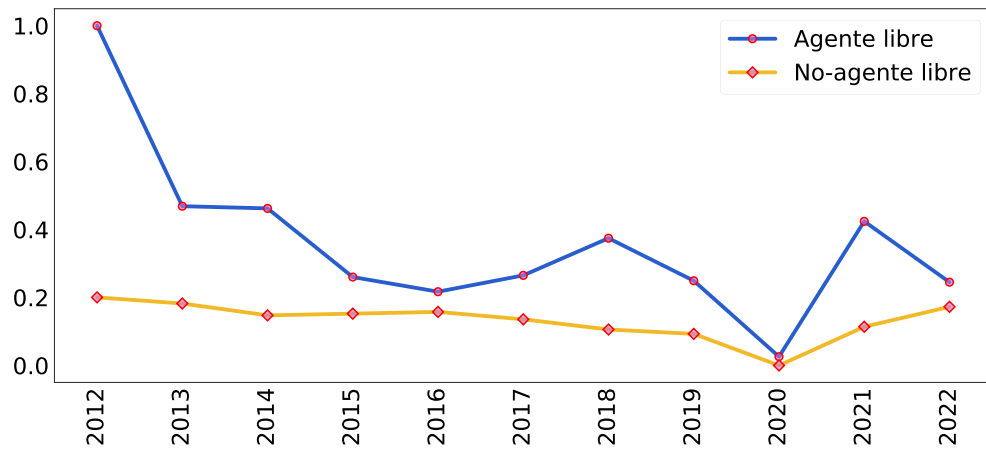


### Partidos jugados

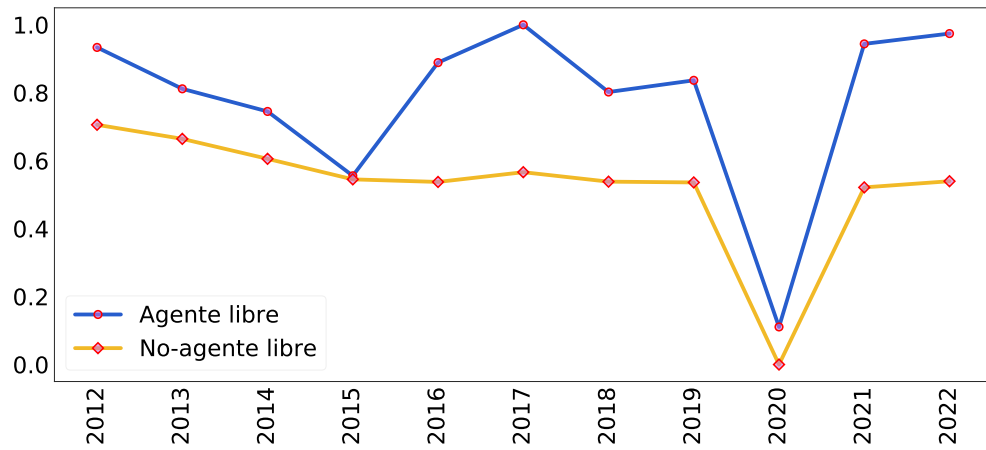




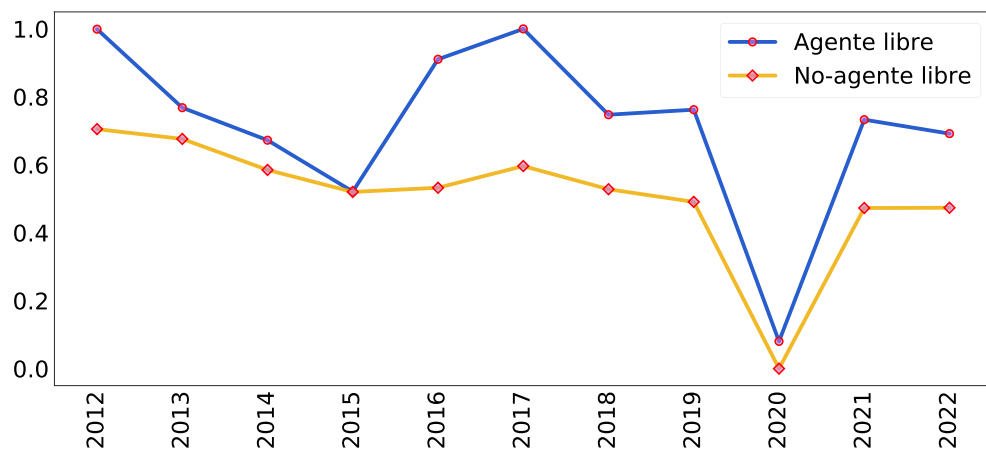
### Salvamentos



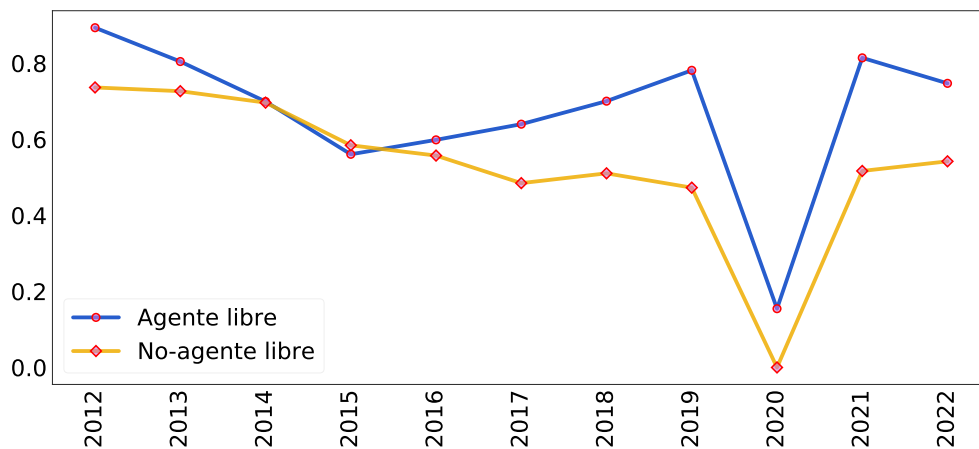
### Strike-outs



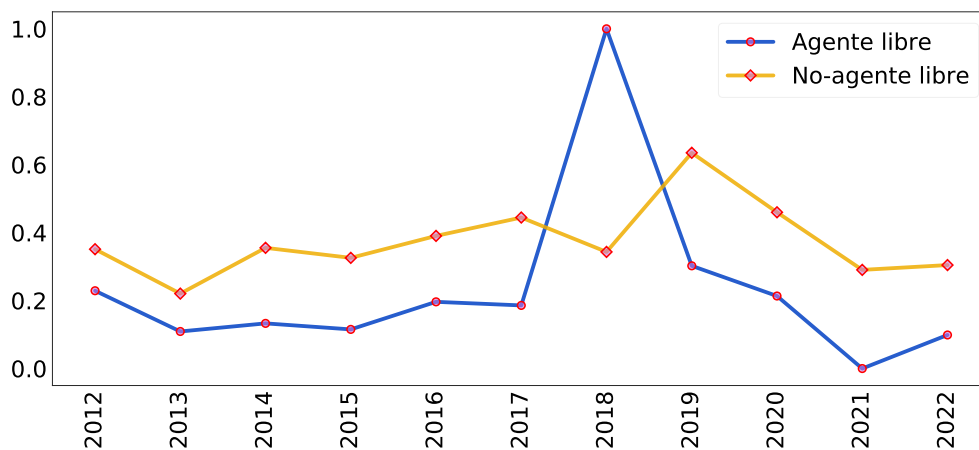
### Bases por bola permitidas



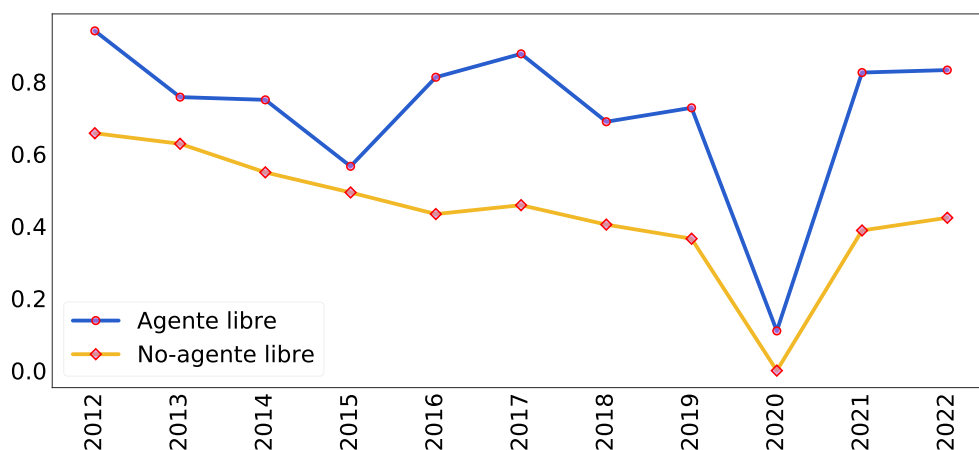
### WAR



### WHIP

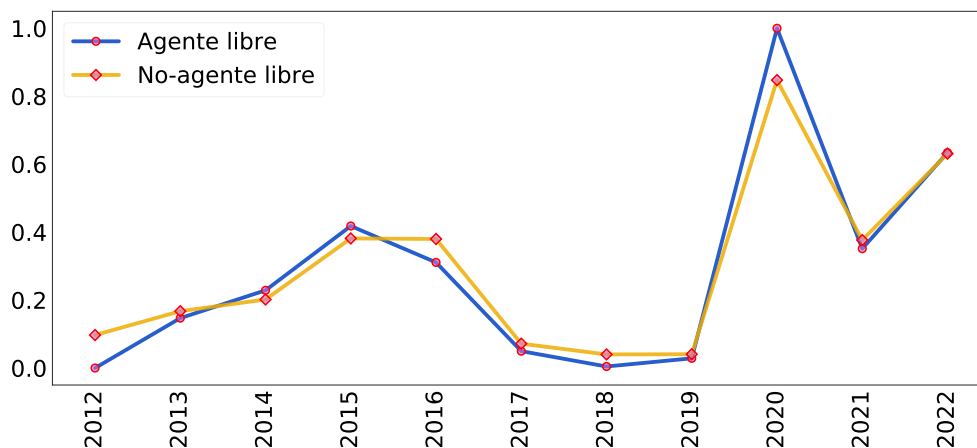


### Wins

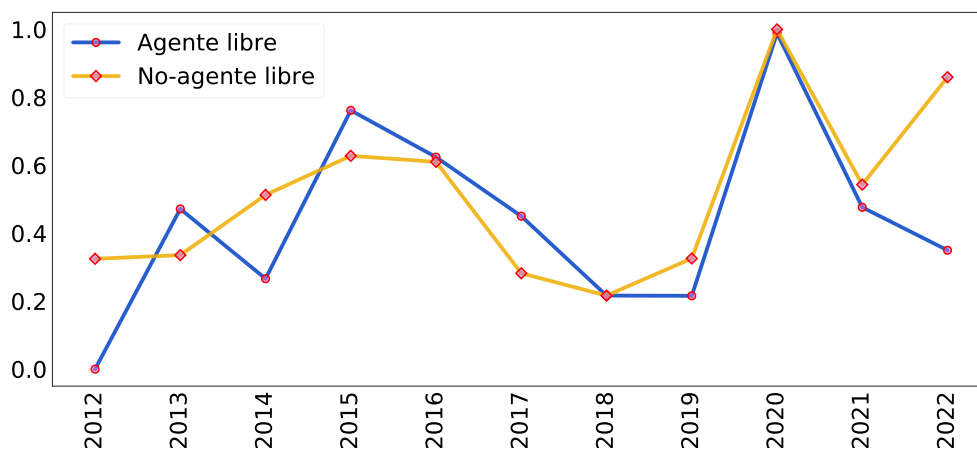


### A.3.3. Estadísticas deportivas por juego - Bateadores

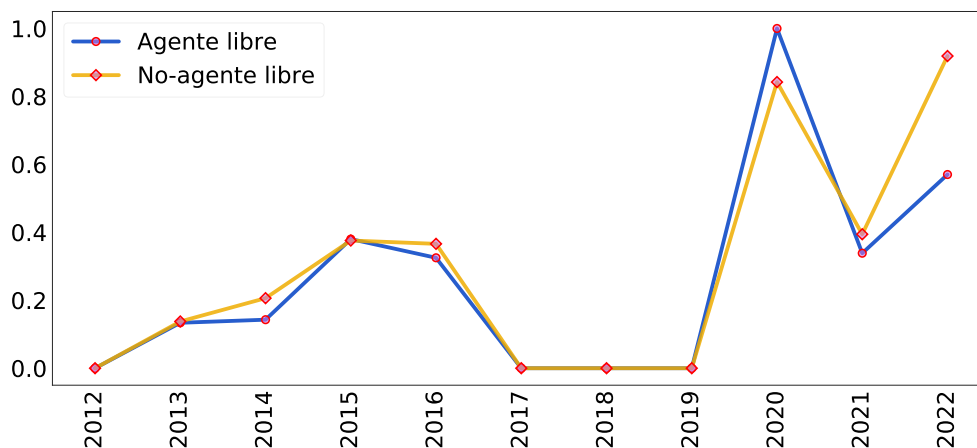
**Al bate**



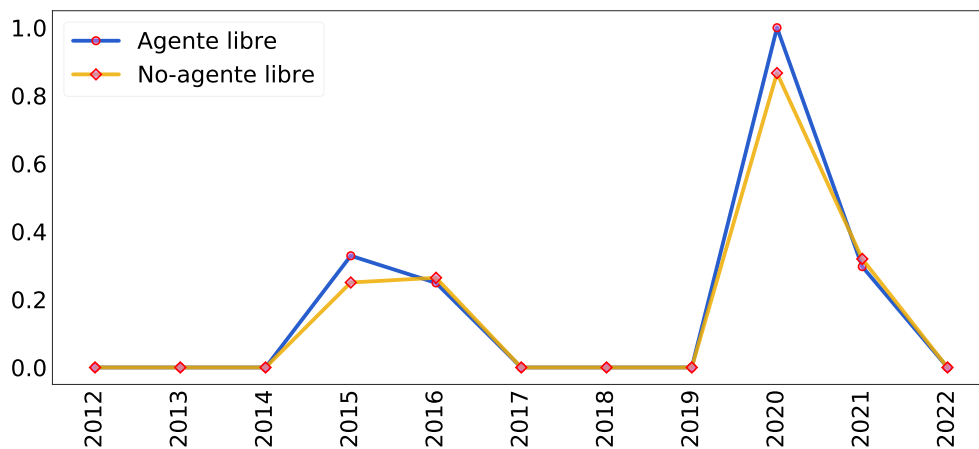
**Bateos promedio**



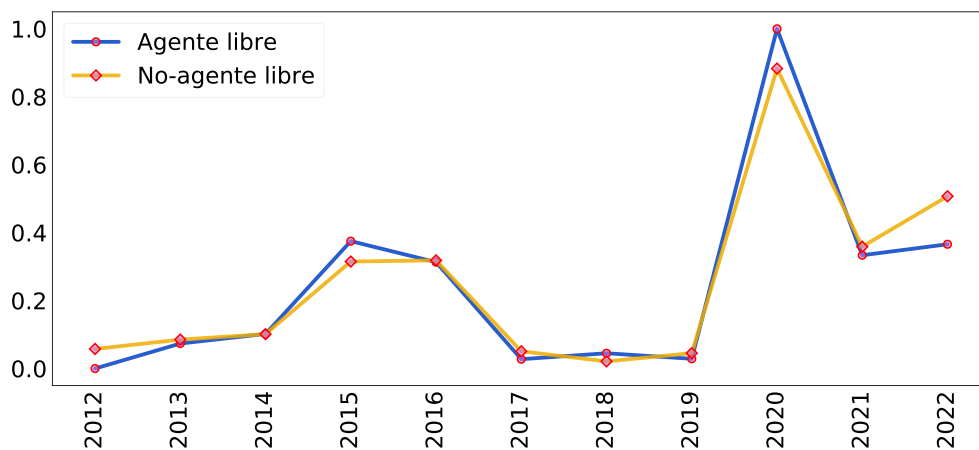
**Dobles**



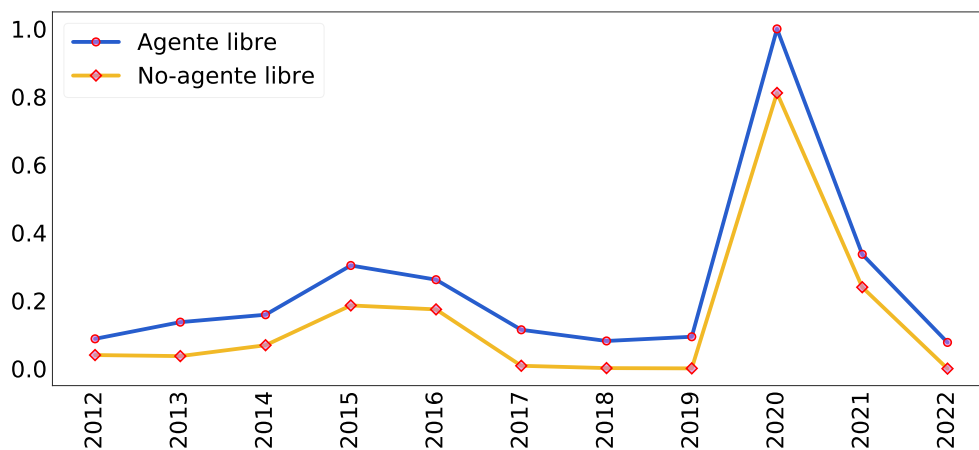
### Home-runs



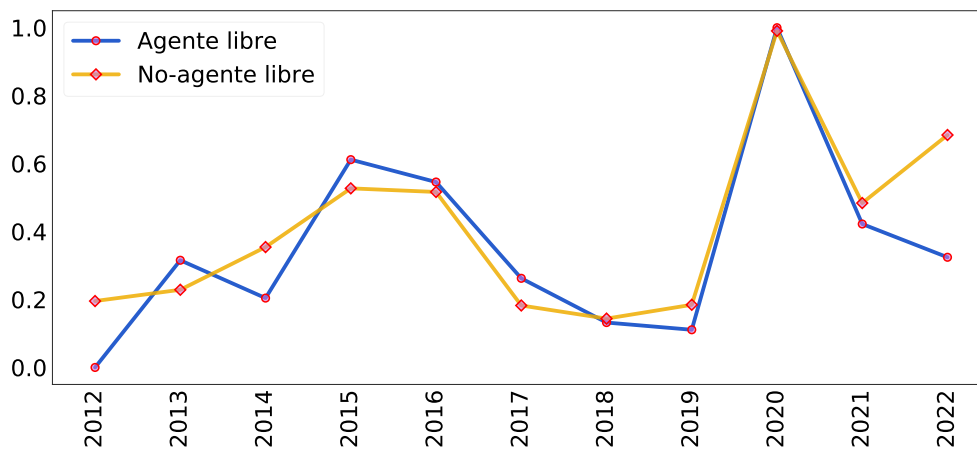
### Carreras limpias



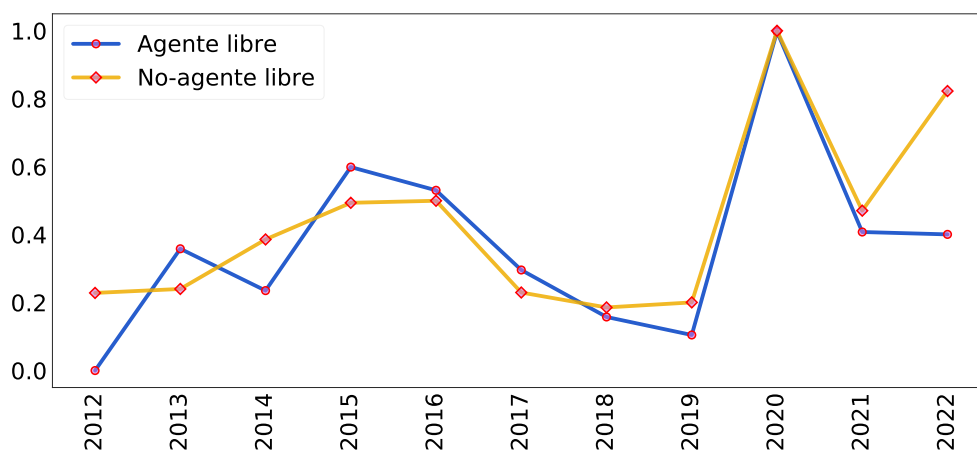
### %Juegos iniciados



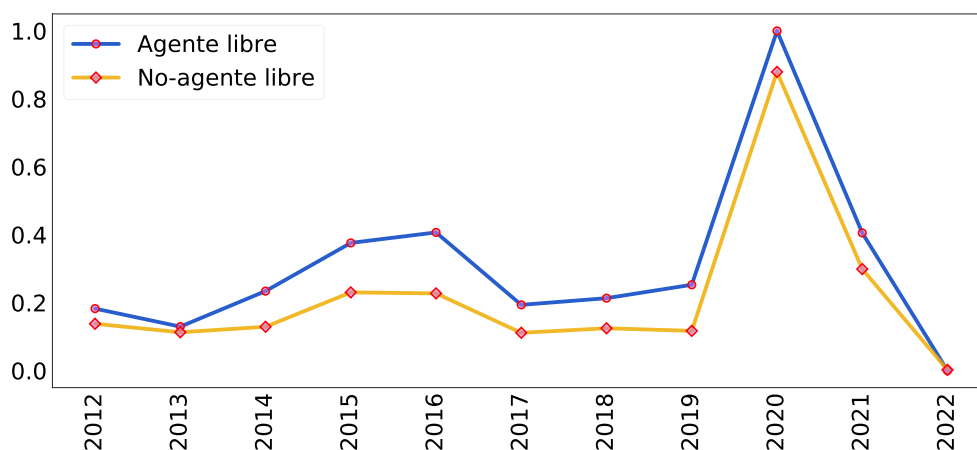
### %On-base-plus-slugging

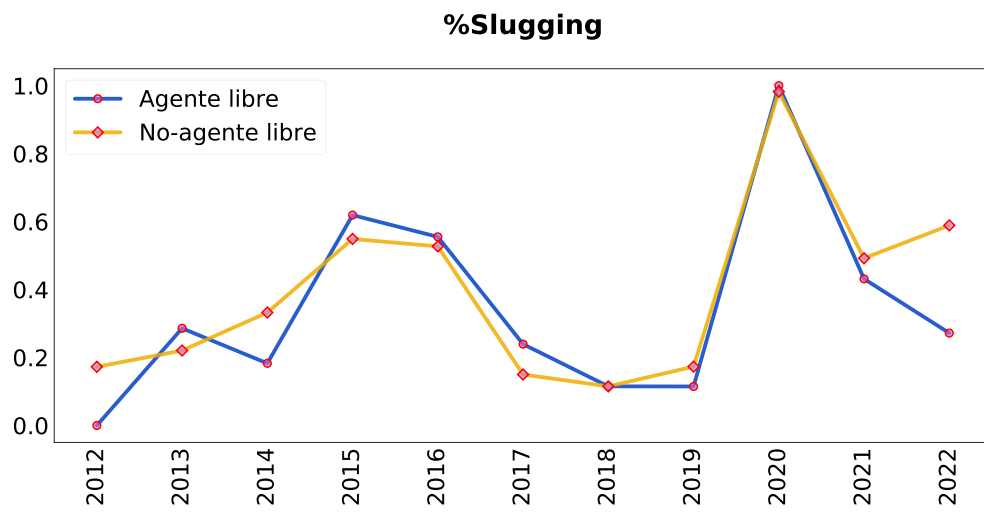


### %Embasado



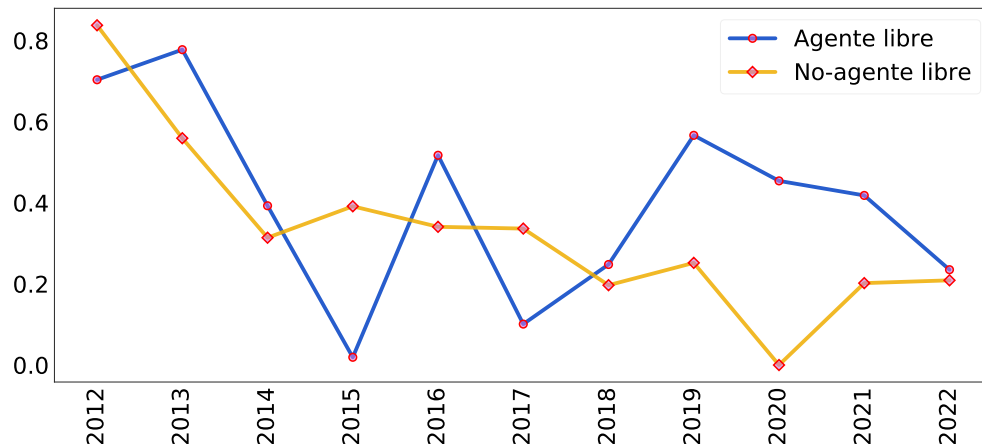
### %Partidos jugados



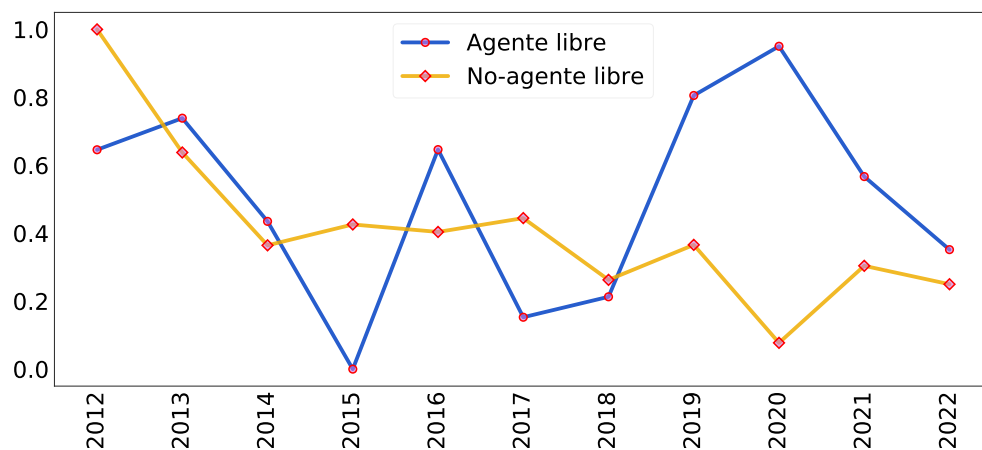


#### A.3.4. Estadísticas deportivas por juego - Filderos

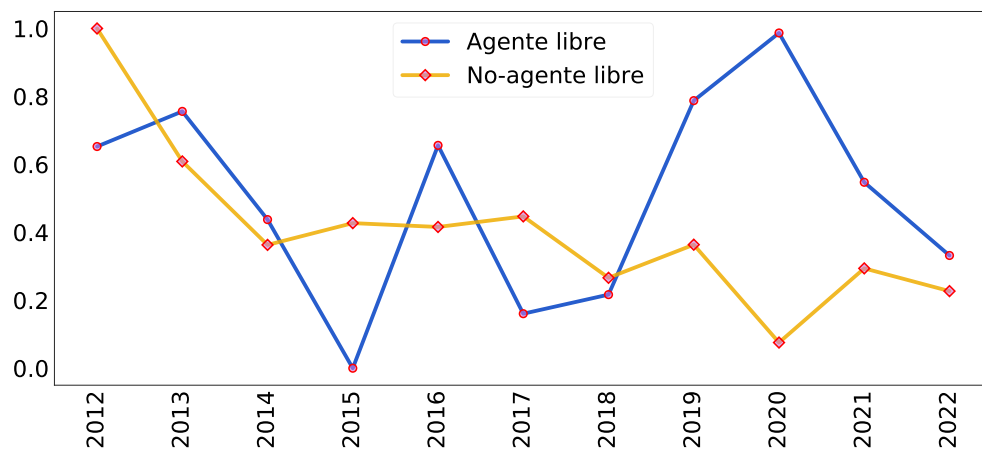
**Bateos permitidos**



**Carreras permitidas**



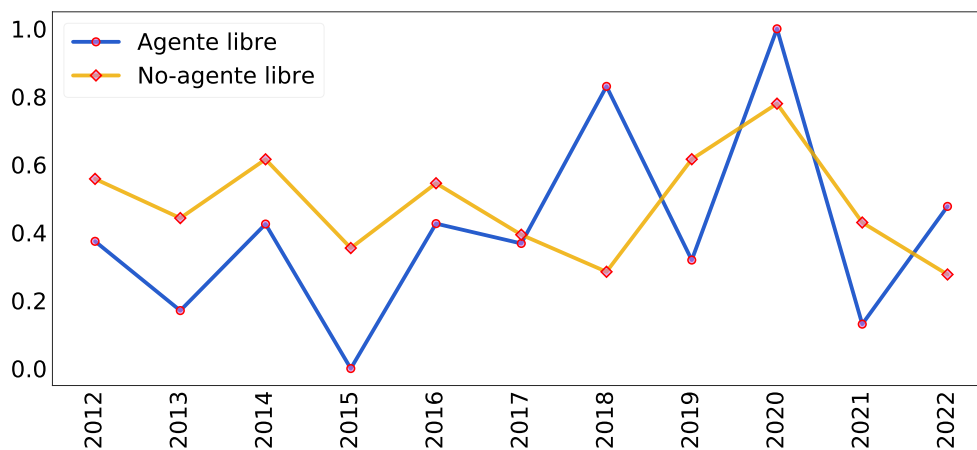
**Carreras ganadas**



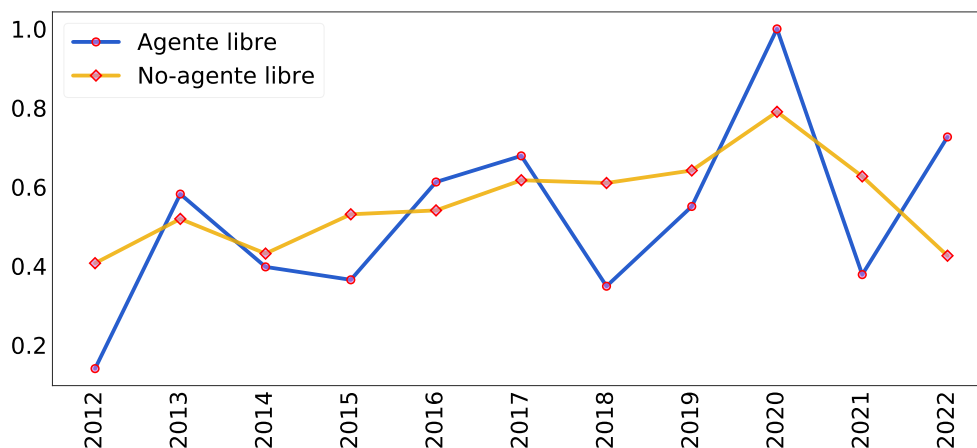
### Comando



### Control

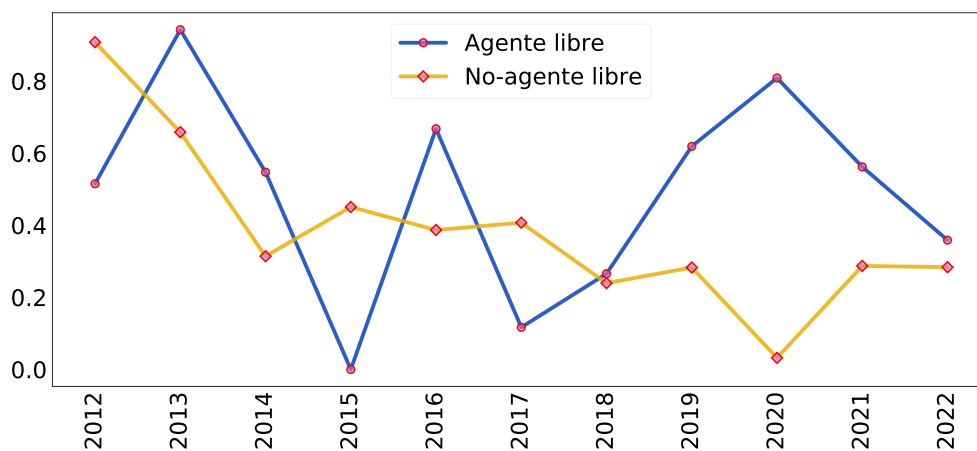


### Dominio

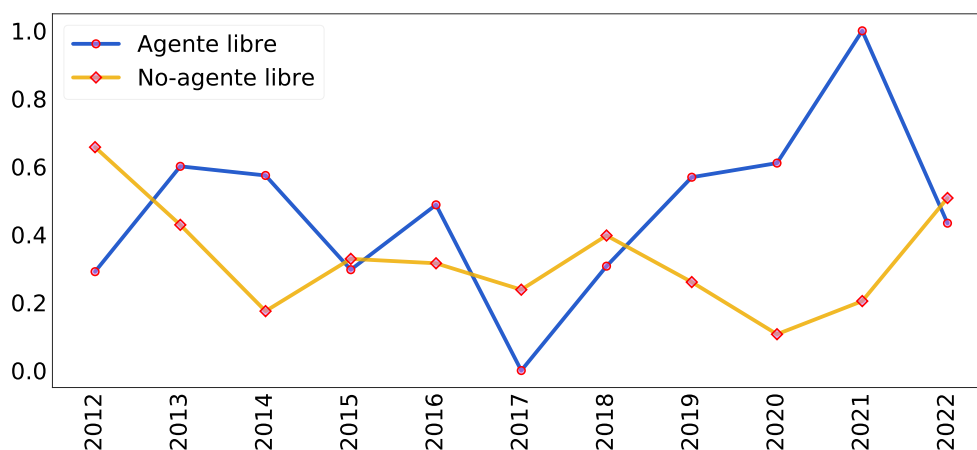




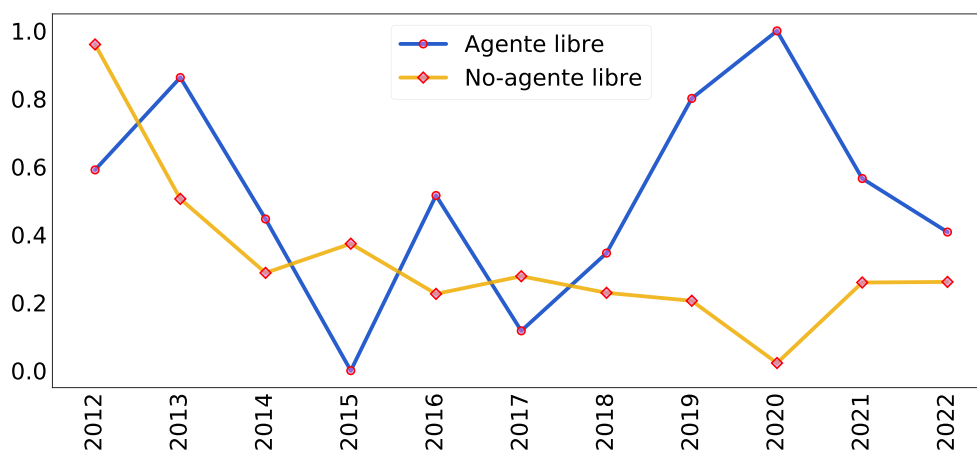
### Inning pitched



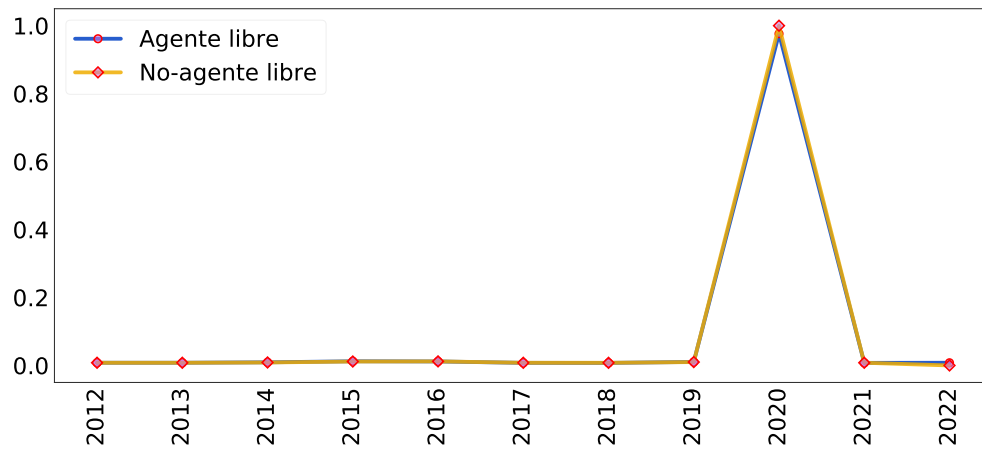
### Juegos iniciados



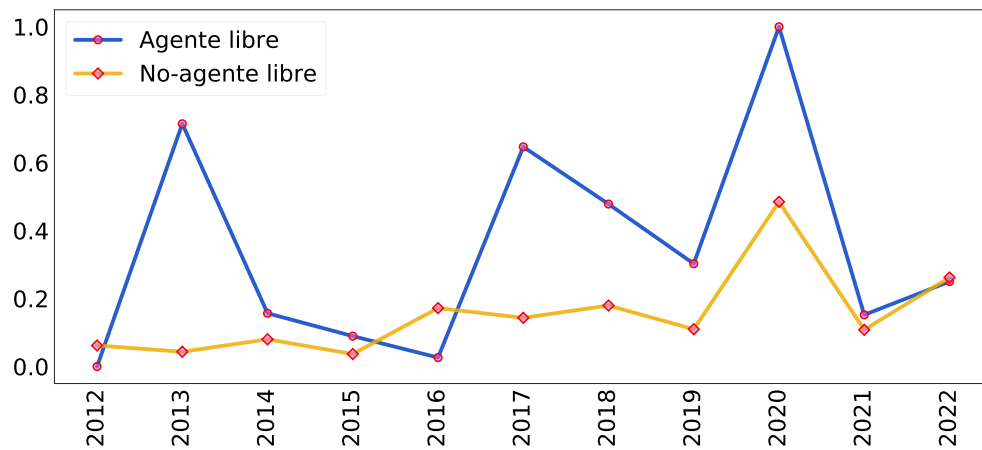
### Losses



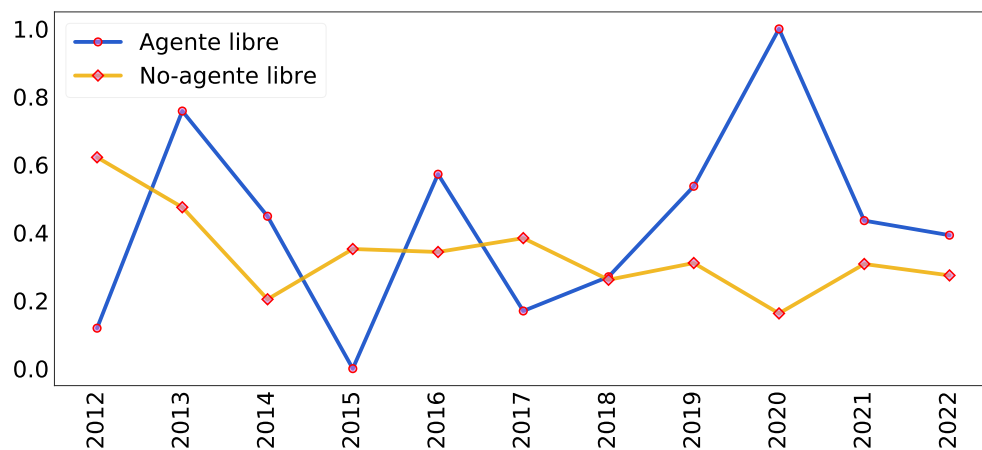
### Partidos jugados



### Salvamentos



### Strike-outs



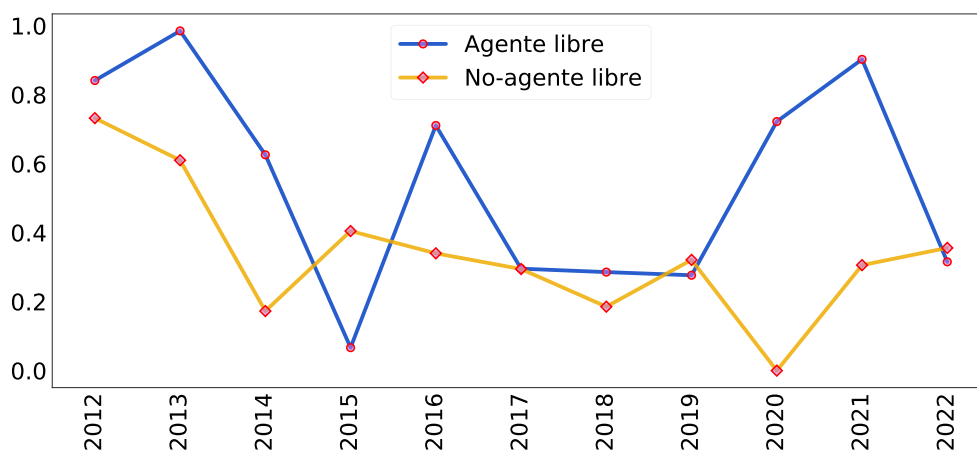
### Bases por bola permitidas



### WHIP

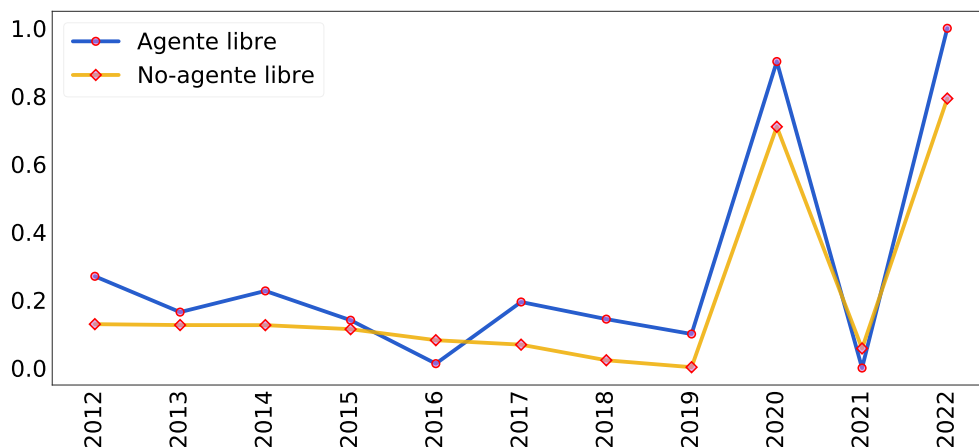


### Wins

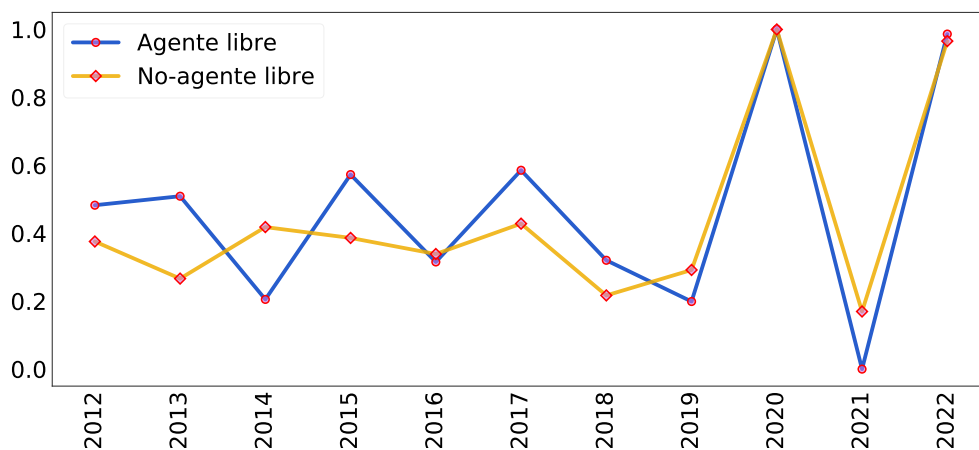


### A.3.5. Estadísticas deportivas por cada 10 juegos - Bateadores

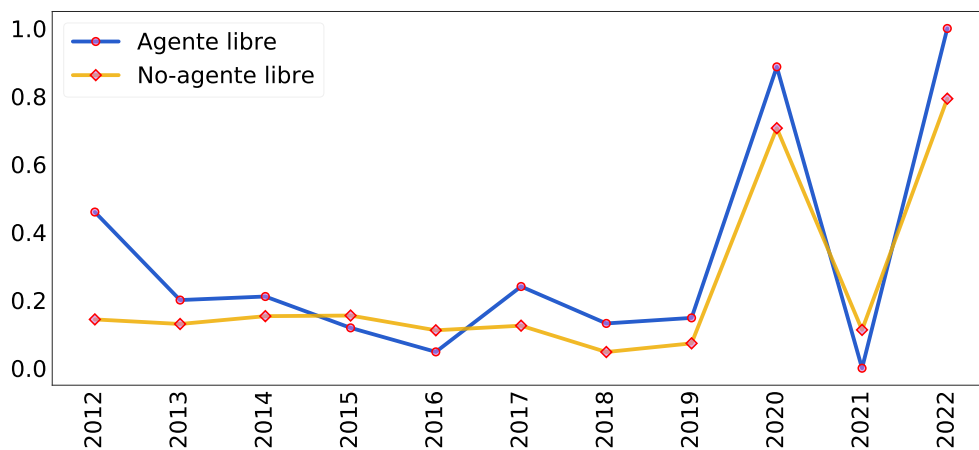
**Al bate**



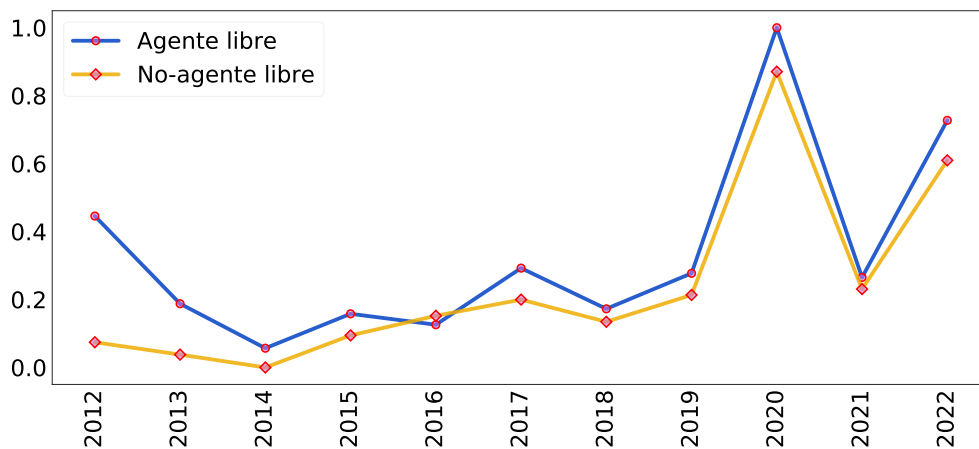
**Bateos promedio**



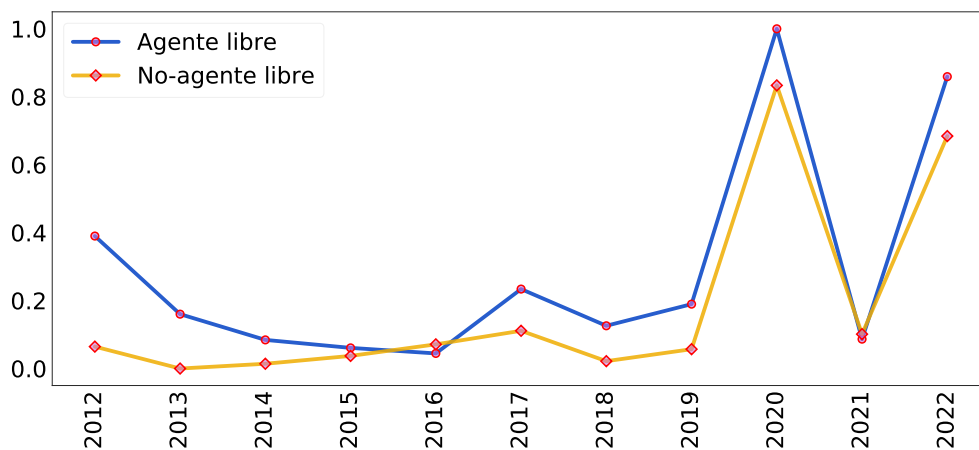
**Dobles**



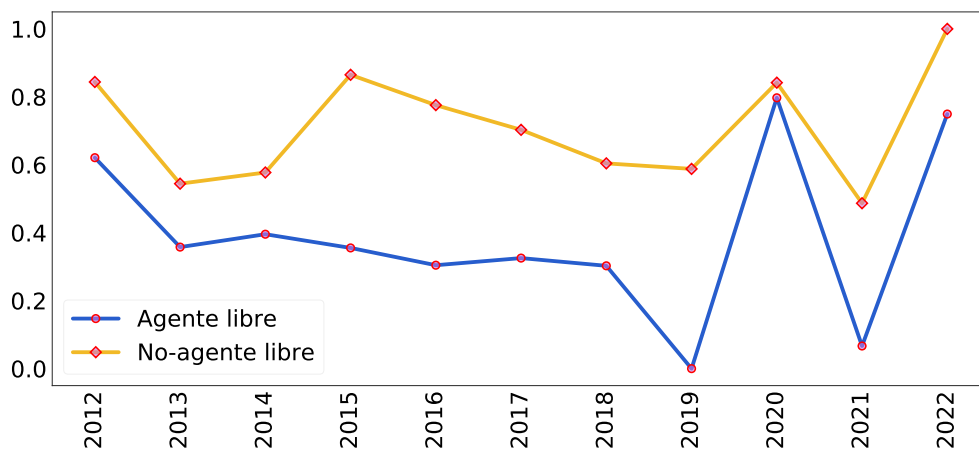
### Home-runs



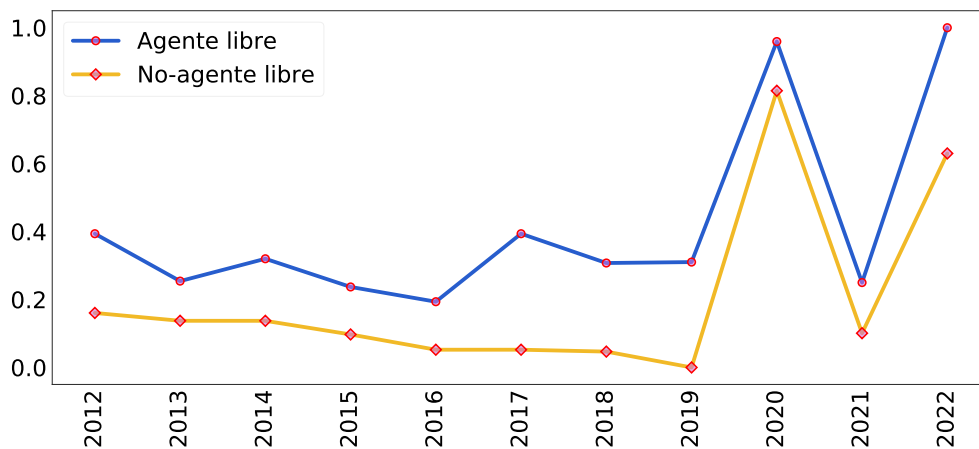
### Carreras limpias



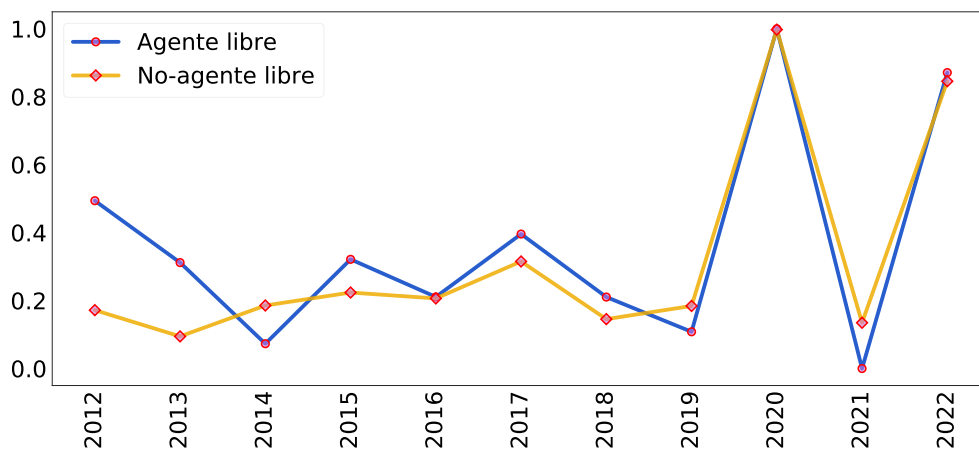
### Triples



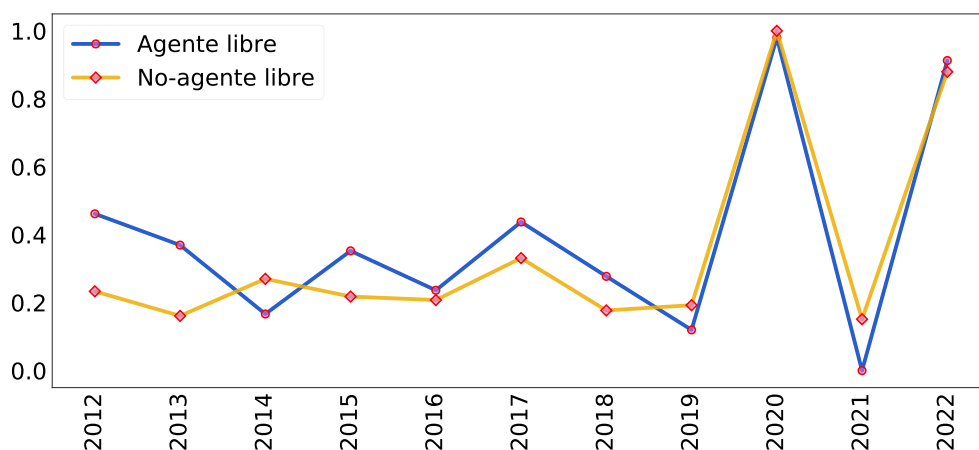
### %Juegos iniciados

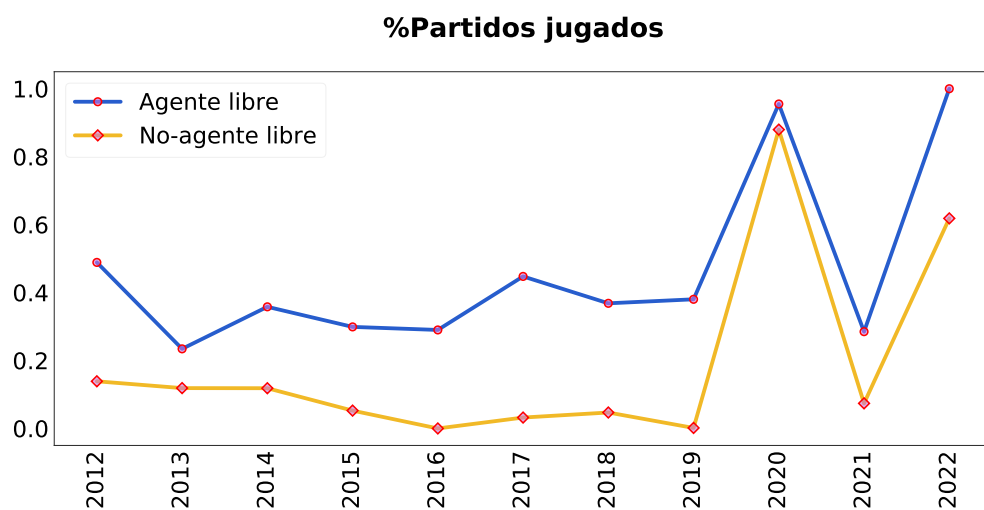


### %On-base-plus-slugging

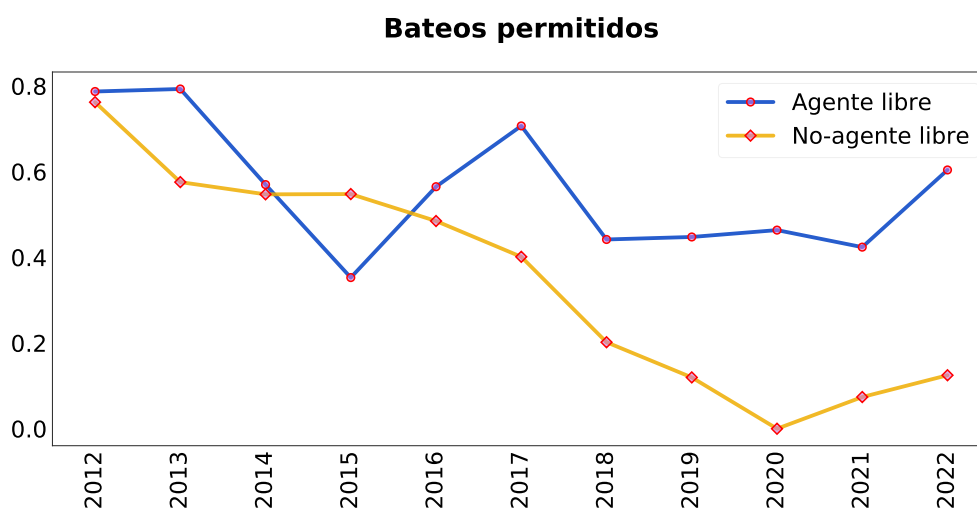


### %Embasado

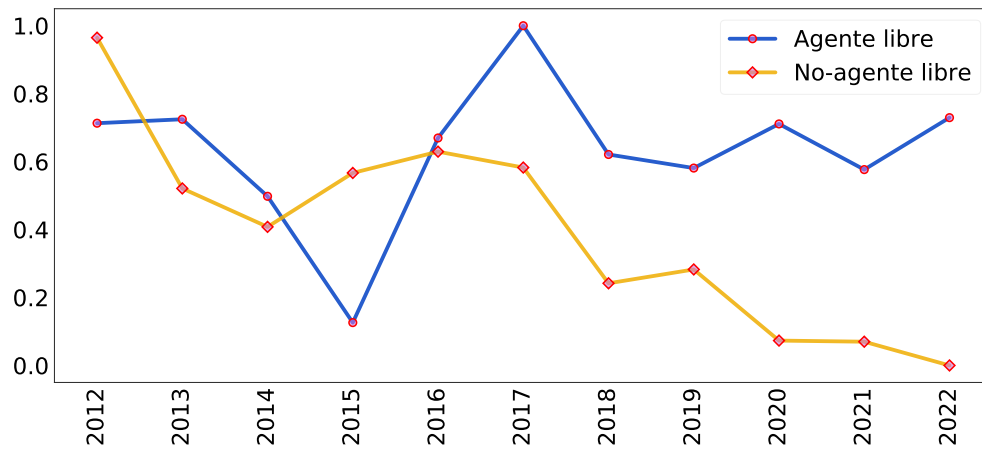




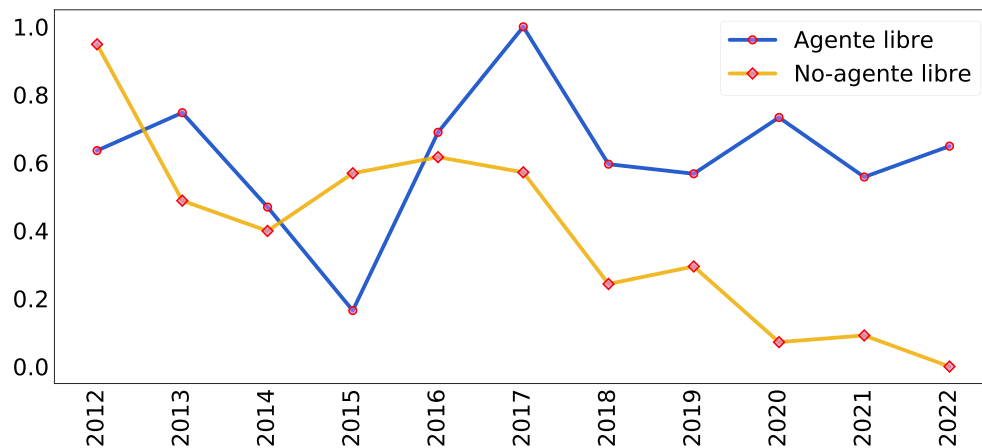
#### A.3.6. Estadísticas deportivas por cada 10 juegos - Filderos



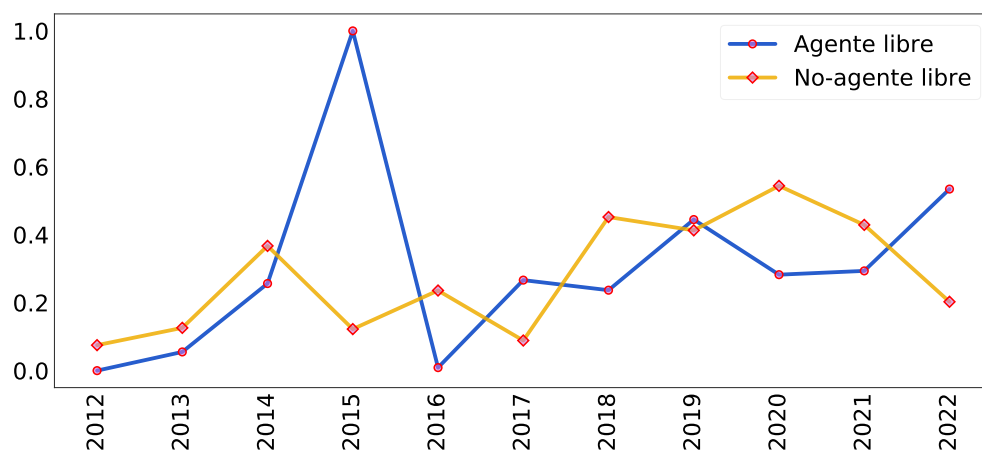
### Carreras permitidas



### Carreras ganadas

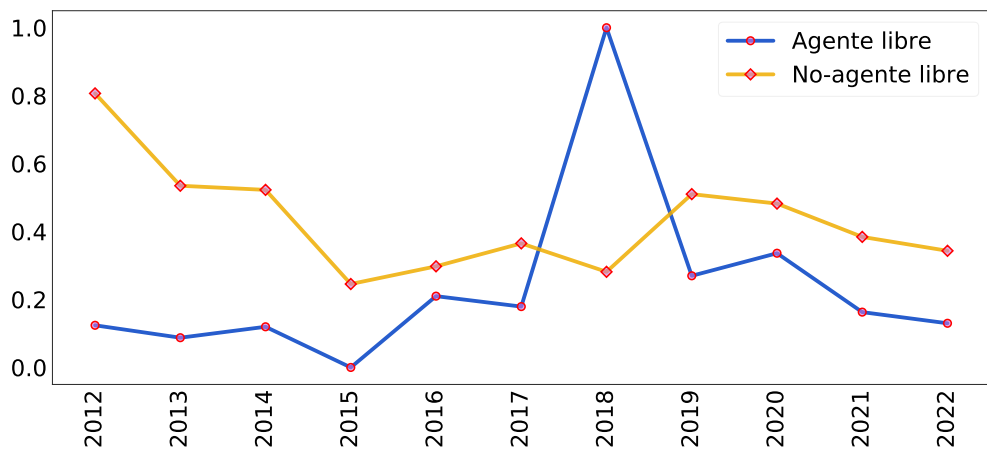


### Comando

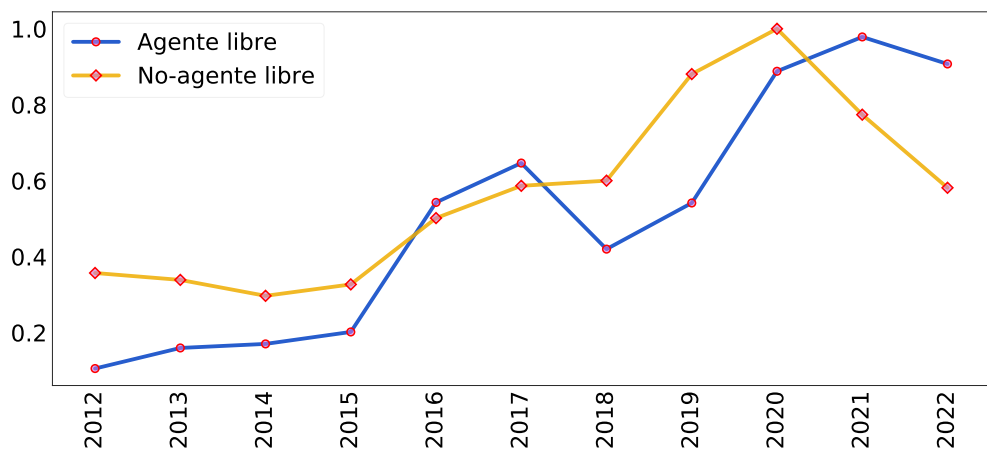




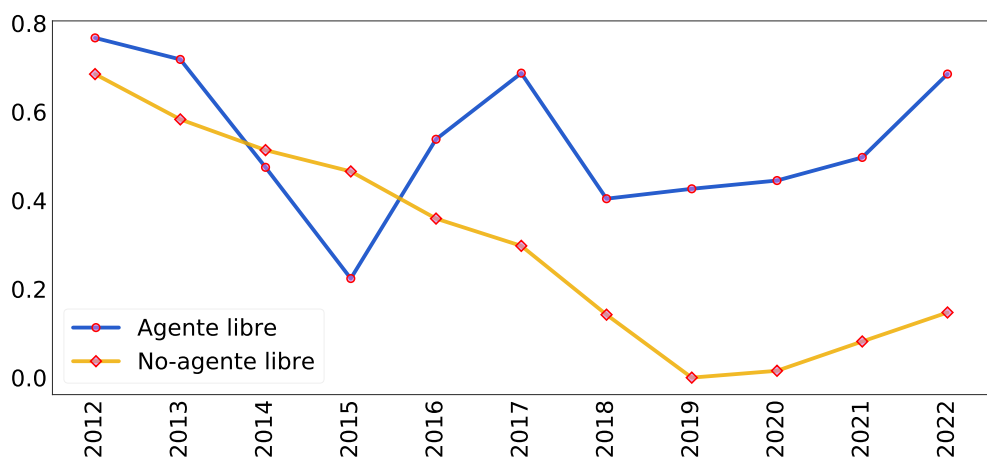
### Control



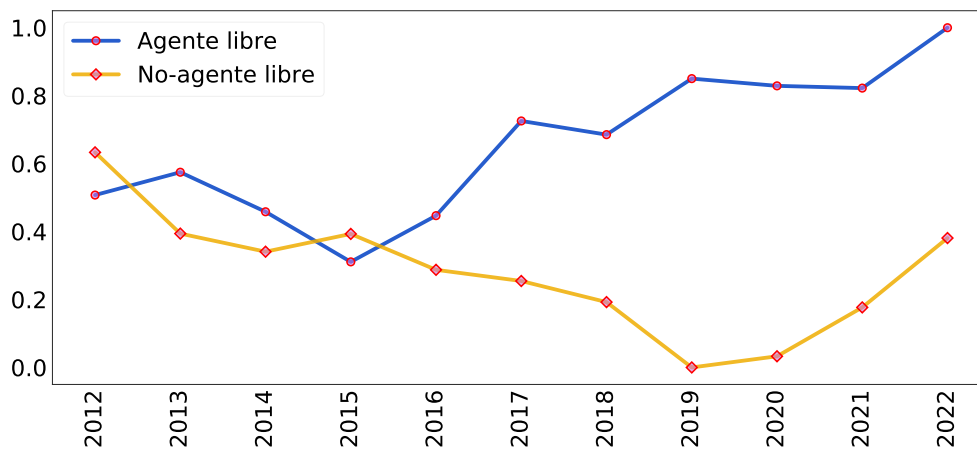
### Dominio



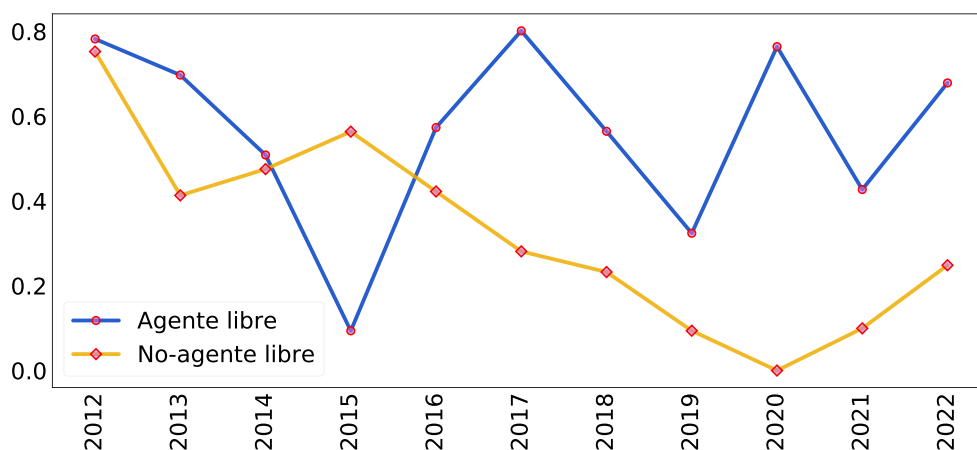
### Inning pitched



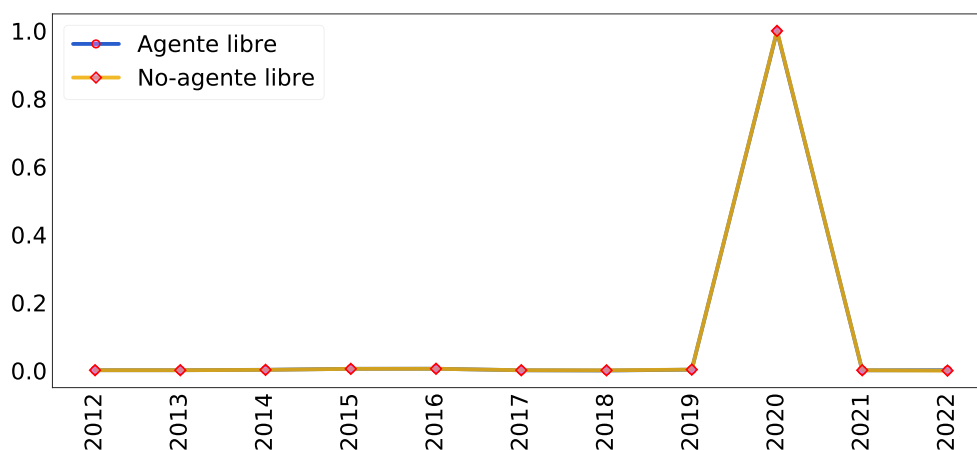
### Juegos iniciados



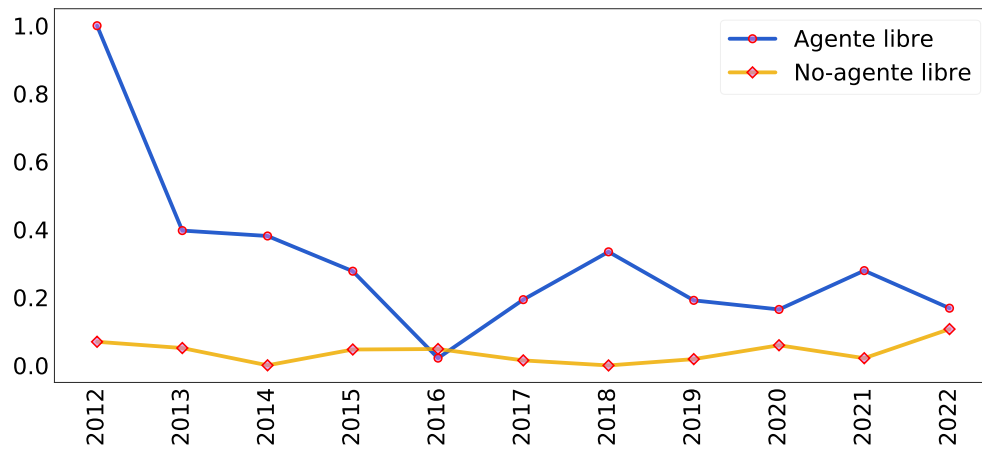
### Losses



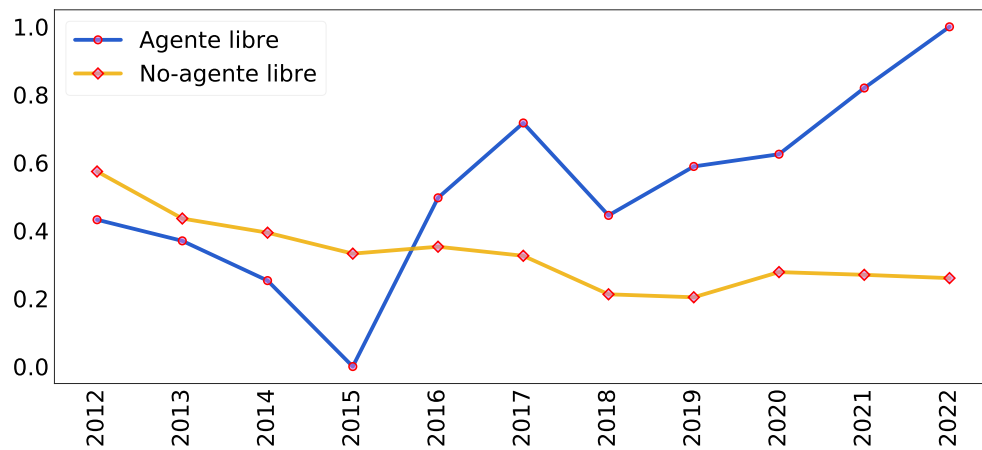
### Partidos jugados



### Salvamentos



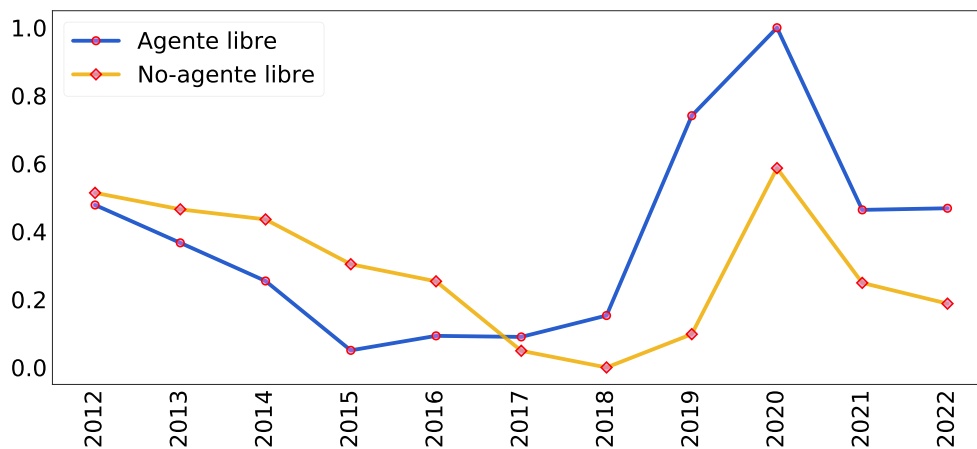
### Strike-outs



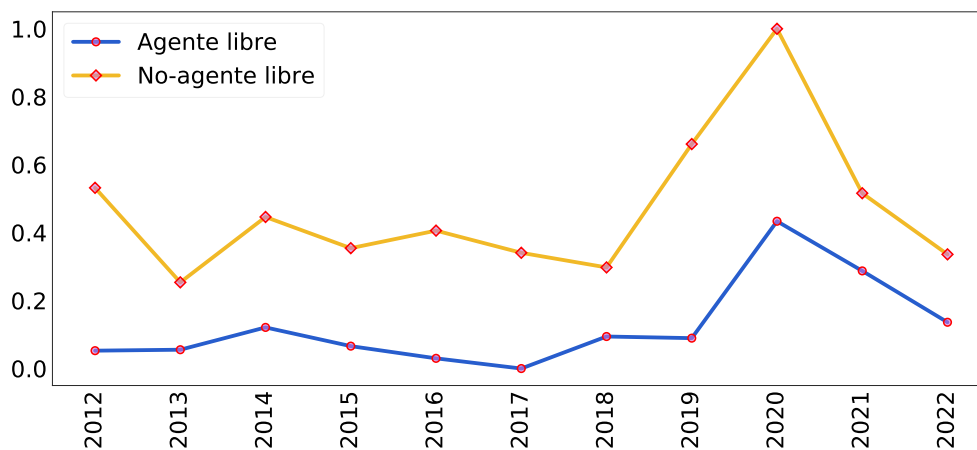
### Bases por bola permitidas



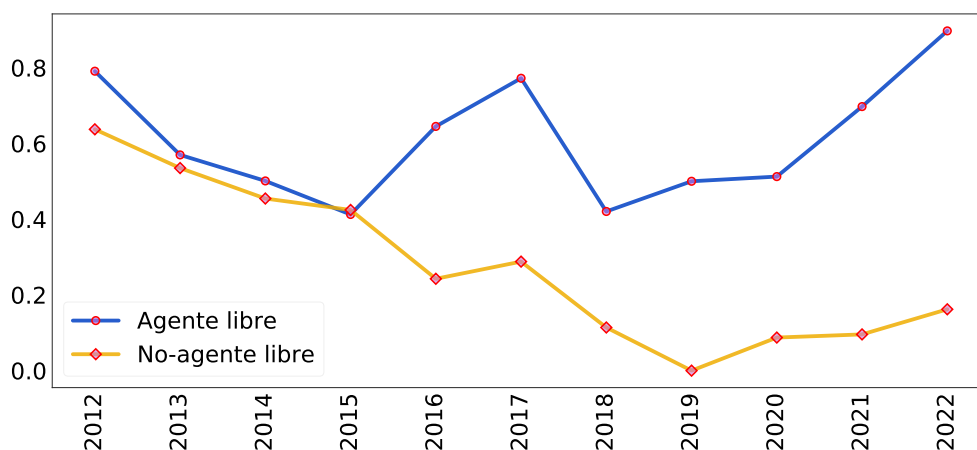
### WAR



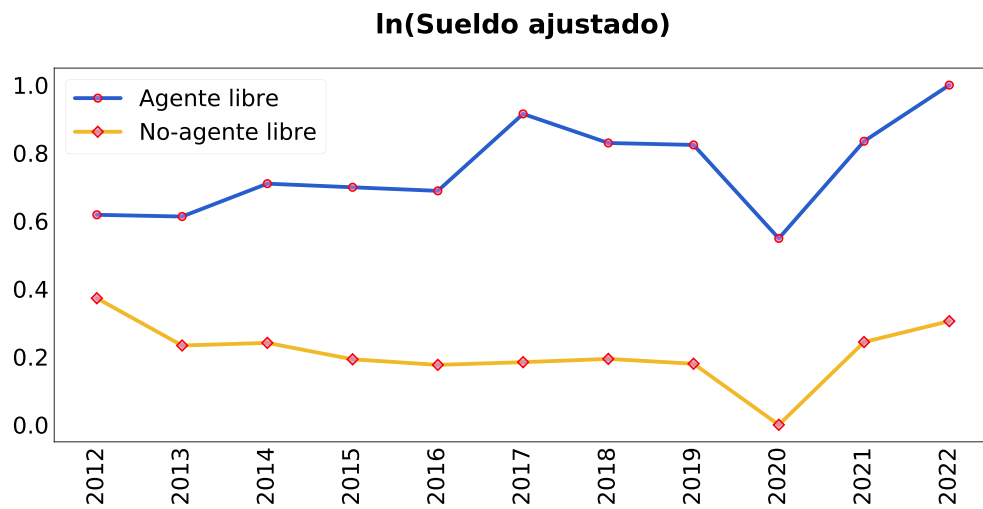
### WHIP



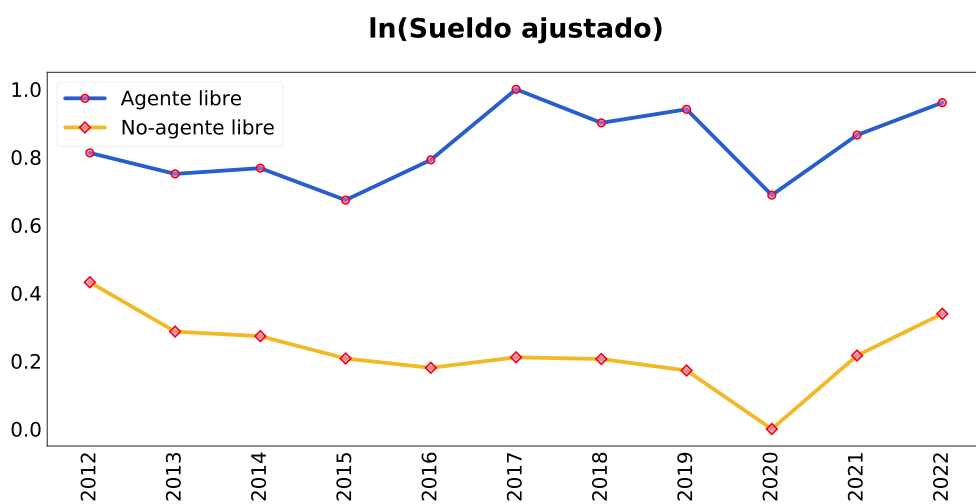
### Wins



### A.3.7. Salarios - Bateadores



### A.3.8. Salarios - Fielders



## B. Resultados de las regresiones

## C. Estimaciones directas

A continuación, se muestran las estimaciones directas e individuales con cada una de las estadísticas deportivas transformadas,  $X$ , para cuatro modelos o estimadores distintos: *Pooling*, *within*, Efectos aleatorios y primeras diferencias.

Cuadro 31: Bateadores: Modelo Pooling

	<i>Dependent variable:</i>					
	(1)	(2)	(3)	(4)	(5)	(6)
$Edad_t$	-0.006** (0.003)	-0.006** (0.003)	-0.006** (0.002)	-0.006** (0.003)	-0.006** (0.003)	-0.006** (0.003)
Años contrato $_t$	0.001 (0.004)	-0.001 (0.004)	0.001 (0.004)	-0.001 (0.004)	-0.0003 (0.003)	-0.001 (0.003)
Equipo $_t$	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)
$X_{AB_t}$	-0.001 (0.001)					
$X_{AB_{t-1}}$	-0.001 (0.001)					
$X_{AB_t^2}$		-0.00002 (0.00004)				
$X_{AB_{t-1}^2}$		-0.00000 (0.00003)				
$X_{H_t}$			-0.002* (0.001)			
$X_{H_{t-1}}$			0.0003 (0.001)			
$X_{H_t^2}$				-0.0001 (0.0001)		
$X_{H_{t-1}^2}$				0.0001 (0.0001)		
$X_{BA_t}$					-0.031 (0.020)	
$X_{BA_{t-1}}$					0.020 (0.017)	
$X_{BA_t^2}$						-0.046 (0.029)
$X_{BA_{t-1}^2}$						0.005 (0.017)
Intercepto	0.162* (0.085)	0.157* (0.081)	0.149* (0.081)	0.153* (0.086)	0.152* (0.085)	0.149* (0.085)

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

<i>Dependent variable:</i>						
	(1)	(2)	(3)	(4)	(5)	(6)
$Edad_t$	-0.006** (0.002)	-0.006** (0.003)	-0.006** (0.003)	-0.006** (0.003)	-0.006** (0.003)	-0.006** (0.003)
Años contrato $_t$	0.001 (0.004)	-0.001 (0.004)	-0.002 (0.003)	-0.001 (0.003)	0.001 (0.004)	-0.001 (0.004)
Equipo $_t$	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)
$X_{D_t}$	-0.004 (0.003)					
$X_{D_{t-1}}$	-0.001 (0.003)					
$X_{D_t^2}$		-0.0004 (0.001)				
$X_{D_{t-1}^2}$		0.001 (0.001)				
$X_{HR_t}$			-0.001 (0.004)			
$X_{HR_{t-1}}$			0.003 (0.002)			
$X_{HR_t^2}$				-0.001 (0.001)		
$X_{HR_{t-1}^2}$				-0.0001 (0.0004)		
$X_{GS_t}$					-0.002 (0.001)	
$X_{GS_{t-1}}$					-0.001 (0.001)	
$X_{GS_t^2}$						-0.0001 (0.0002)
$X_{GS_{t-1}^2}$						0.00005 (0.0001)
Intercepto	0.150* (0.080)	0.155* (0.083)	0.158* (0.083)	0.160* (0.083)	0.161* (0.084)	0.158* (0.081)

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

<i>Dependent variable:</i>						
	(1)	(2)	(3)	(4)	(5)	(6)
$Edad_t$	-0.006** (0.003)	-0.005** (0.003)	-0.006** (0.003)	-0.005** (0.003)	-0.006** (0.003)	-0.006** (0.003)
Años contrato $_t$	-0.0004 (0.003)	0.0001 (0.004)	-0.001 (0.003)	-0.0002 (0.003)	0.0002 (0.003)	0.0002 (0.004)
Equipo $_t$	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)	0.001 (0.001)
$X_{OPS_t}$	-0.021 (0.014)					
$X_{OPS_{t-1}}$	-0.001 (0.013)					
$X_{OPS_t^2}$		-0.026** (0.013)				
$X_{OPS_{t-1}^2}$		0.008 (0.011)				
$X_{OBP_t}$			-0.043** (0.022)			
$X_{OBP_{t-1}}$			0.020 (0.019)			
$X_{OBP_t^2}$				-0.049* (0.028)		
$X_{OBP_{t-1}^2}$				0.006 (0.020)		
$X_{SLG_t}$					-0.018 (0.019)	
$X_{SLG_{t-1}}$					-0.023 (0.017)	
$X_{SLG_t^2}$						-0.040* (0.022)
$X_{SLG_{t-1}^2}$						0.014 (0.018)
Intercepto	0.160* (0.085)	0.142* (0.086)	0.156* (0.083)	0.144* (0.083)	0.167** (0.082)	0.148* (0.085)

Note:

\*p&lt;0.1; \*\*p&lt;0.05; \*\*\*p&lt;0.01



## Referencias