

# Package ‘EventStudy’

December 20, 2021

**Type** Package

**Title** Event Study Analysis

**Description**

Perform Event Studies from through our <<https://EventStudyTools.com>> Application Programming Interface, parse the results, visualize it, and / or use the results in further analysis.

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**License** GPL (>= 2)

**Depends** ggplot2

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aarPlot	<i>Averaged Abnormal Return Plot</i>
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## Description

Averaged abnormal return plots with confidence intervals

For more details see the help vignette: `vignette("parameters_eventstudy", package = "EventStudy")`

## Usage

```
aarPlot(
  ResultParserObj,
  cumSum = F,
  group = NULL,
  window = NULL,
  ciStatistics = NULL,
  p = 0.95,
  ciType = "band",
  xlab = "",
  ylab = "Averaged Abnormal Returns",
  facet = T,
  ncol = 4
)
```

## Arguments

ResultParserObj	An object of class ResultParser
cumSum	plot CAAR
group	set this parameter if just one group should be plotted
window	numeric vector of length 2
ciStatistics	Statistic used for confidence intervals

p	p-value
ciType	type of CI band
xlab	x-axis label
ylab	y-axis label
facet	should each firm get its own plot (default = T)
ncol	number of facet columns

**Value**

a ggplot2 object

**Examples**

```
## Not run:  
# plot averaged abnormal returns in one plot  
aarPlot(resultParser)  
  
# plot averaged abnormal returns with .95-CI  
arPlot(resultParser, ciStatistics = "Patell Z", p = .95)  
  
## End(Not run)
```

---

ARCAApplicationInput    *Abnormal Return Calculation Parameters*

---

**Description**

This R6 class defines the parameters for the Return Event Study. We recommend to use the set functionality to setup your Event Study, as we check input parameters.

For more details see the help vignette: `vignette("parameters_eventstudy", package = "EventStudy")`

**Value**

a ESTParameters R6 object

**Methods**

`$new()` Constructor for ARCAApplicationInput.

`$setEMail(eMail)` Set the e-Mail address for reporting. This functionality is currently not working.

`$setBenchmarkModel(model = 'mm')` Setter for the benchmark model.s

`$setReturntype(returnType)` Setter for the return type (log or simple)

`$setTestStatistics(testStatistics)` Setter for the test statistics.

**Arguments**

**ESTARCPParameters** An ARCAApplicationInput object

**eMail** An E-Mail address in String format

**model** A benchmark model in String format

**returnType** A return type in String format

**testStatistics** A String vector with test statistics.

**Super classes**

[EventStudy::ApplicationInputInterface](#) -> [EventStudy::EventStudyApplicationInput](#) -> ARCAApplicationInput

**Methods****Public methods:**

- [ARCAApplicationInput\\$setEMail\(\)](#)
- [ARCAApplicationInput\\$setBenchmarkModel\(\)](#)
- [ARCAApplicationInput\\$setReturntype\(\)](#)
- [ARCAApplicationInput\\$setNonTradingDays\(\)](#)
- [ARCAApplicationInput\\$setTestStatistics\(\)](#)
- [ARCAApplicationInput\\$setDataFiles\(\)](#)
- [ARCAApplicationInput\\$clone\(\)](#)

**Method setEMail():**

*Usage:*

ARCAApplicationInput\$setEMail(eMail)

**Method setBenchmarkModel():**

*Usage:*

ARCAApplicationInput\$setBenchmarkModel(model)

**Method setReturntype():**

*Usage:*

ARCAApplicationInput\$setReturntype(returnType)

**Method setNonTradingDays():**

*Usage:*

ARCAApplicationInput\$setNonTradingDays(nonTradingDays = "later")

**Method setTestStatistics():**

*Usage:*

ARCAApplicationInput\$setTestStatistics(testStatistics = NULL)

**Method setDataFiles():**

*Usage:*

```

ARCApplicationInput$setDataFiles(
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",
    market_data = "03_MarketData.csv")
)

```

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
ARCApplicationInput$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Examples

```

## Not run:
# get files for our S&P500 example; 3 files are written in the current
# working directory
getSP500ExampleFiles()

# Generate a new parameter object
arcParams <- ARCApplicationInput$new()

# set test statistics
arcParams$setBenchmarkModel("garch")

# Setup API object
apiKey <- "{Your API key}"
estSetup <- EventStudyAPI$new()
estSetup$authentication(apiKey)

# Perform Event Study
estSetup$performEventStudy(estParams = arcParams,
  dataFiles = c("request_file" = "01_RequestFile.csv",
    "firm_data" = "02_firmData.csv",
    "market_data" = "03_marketData.csv"))

# Download task results and save them in the actual working directory
estSetup$getTaskResults()

## End(Not run)

```

---

arPlot

*Abnormal Return Plot*

---

## Description

Plot abnormal returns in the event window of single or multiple firms.

**Usage**

```
arPlot(  
  ResultParserObj,  
  firm = NULL,  
  window = NULL,  
  xlab = "",  
  ylab = "Abnormal Returns",  
  alpha = 0.5,  
  facetVar = NULL,  
  ncol = 4,  
  addAAR = F,  
  xVar = "eventTime",  
  yVar = "ar"  
)
```

**Arguments**

ResultParserObj	An object of class ResultParser
firm	set this parameter if just a subset of firms should be plotted
window	filter event time window
xlab	x-axis label of the plot
ylab	y-axis label
alpha	alpha value
facetVar	should each firm get its own plot. You may plot each firm in an own plot or by each group. (Default: NULL, available: Group and Firm)
ncol	number of facet columns
addAAR	add aar line
xVar	x variable name
yVar	y variable name

**Value**

a ggplot2 object

**Examples**

```
## Not run:  
# plot abnormal returns in one plot  
arPlot(resultParser)  
  
# plot abnormal returns by group  
arPlot(resultParser, facetVar = "Group")  
  
## End(Not run)
```

---

AVCAApplicationInput    *Abnormal Volume Calculation Parameters*

---

## Description

This R6 class defines the parameters for the Abnormal Volume Event Study. We recommend to use the set functionality to setup your Event Study, as we check input parameters.

For more details see the help vignette: `vignette("parameters_eventstudy", package = "EventStudy")`

## Format

[R6Class](#) object.

## Value

a ESTParameters R6 object

## Methods

`$new()` Constructor for AVCAApplicationInput

`$setEMail(eMail)` Set the e-Mail address for reporting. This functionality is currently not working

`$setBenchmarkModel(model = 'mm')` Setter for the benchmark models

`$setReturnType(returnType)` Setter for the return type (log or simple)

`$setTestStatistics(testStatistics)` Setter for the test statistics

## Arguments

**AVCAApplicationInput** An AVCAApplicationInput object

**eMail** An E-Mail address in String format

**model** A benchmark model in String format

**returnType** A return type in String format

**testStatistics** A String vector with test statistics

## Super classes

[EventStudy::ApplicationInputInterface](#) -> [EventStudy::EventStudyApplicationInput](#) -> AVCAApplicationInput

## Methods

### Public methods:

- `AVCAApplicationInput$setEMail()`
- `AVCAApplicationInput$setBenchmarkModel()`
- `AVCAApplicationInput$setReturnTypes()`
- `AVCAApplicationInput$setNonTradingDays()`
- `AVCAApplicationInput$setTestStatistics()`
- `AVCAApplicationInput$setDataFiles()`
- `AVCAApplicationInput$clone()`

### Method `setEMail()`:

*Usage:*

```
AVCAApplicationInput$setEMail(eMail)
```

### Method `setBenchmarkModel()`:

*Usage:*

```
AVCAApplicationInput$setBenchmarkModel(model)
```

### Method `setReturnTypes()`:

*Usage:*

```
AVCAApplicationInput$setReturnTypes(returnTypes)
```

### Method `setNonTradingDays()`:

*Usage:*

```
AVCAApplicationInput$setNonTradingDays(nonTradingDays = "later")
```

### Method `setTestStatistics()`:

*Usage:*

```
AVCAApplicationInput$setTestStatistics(testStatistics = NULL)
```

### Method `setDataFiles()`:

*Usage:*

```
AVCAApplicationInput$setDataFiles(  
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",  
    market_data = "03_MarketData.csv")  
)
```

### Method `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
AVCAApplicationInput$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.



## Examples

```
## Not run:
# get files for our S&P500 example; 3 files are written in the current
# working directory
getSP500ExampleFiles()

# Generate a new parameter object
avcParams <- AVyCApplicationInput$new()

# set test statistics
arcParams$setBenchmarkModel("garch")

# Setup API object
apiKey <- "{Your API key}"
estSetup <- EventStudyAPI$new()
estSetup$authentication(apiKey)

# Perform Event Study
estSetup$performEventStudy(estParams = avcParams,
                           dataFiles = c("request_file" = "01_RequestFile.csv",
                                          "firm_data" = "02_firmData.csv",
                                          "market_data" = "03_marketData.csv"))

# Download task results and save them in the actual working directory
estSetup$getTaskResults()

## End(Not run)
```

---

AVyCApplicationInput *Abnormal Volatility Calculation Parameters*

---

## Description

This R6 class defines the parameters for the Abnormal Volatility Volume Event Study. We recommend to use the set functionality to setup your Event Study, as we check input parameters.

For more details see the help vignette: `vignette("parameters_eventstudy", package = "EventStudy")`

## Format

[R6Class](#) object.

## Value

a ESTParameters R6 object

**Methods**

`$new()` Constructor for AVyCApplicationInput

`$setEMail(eMail)` Set the e-Mail address for reporting. This functionality is currently not working.

`$setBenchmarkModel(model = 'mm')` Setter for the benchmark models

`$setReturnType(returnType)` Setter for the return type (log or simple)

`$setTestStatistics(testStatistics)` Setter for the test statistics. Per default all available test statistics are applied. You may find all test statistics in the vignette 'parameter\_eventstudy'

**Arguments**

**AVyCApplicationInput** An AVyCApplicationInput object

**eMail** An E-Mail address in String format

**model** A benchmark model in String format

**returnType** A return type in String format

**testStatistics** A String vector with test statistics

**Super classes**

`EventStudy::ApplicationInputInterface -> EventStudy::EventStudyApplicationInput -> AVyCApplicationInput`

**Methods****Public methods:**

- `AVyCApplicationInput$setEMail()`
- `AVyCApplicationInput$setBenchmarkModel()`
- `AVyCApplicationInput$setReturnType()`
- `AVyCApplicationInput$setNonTradingDays()`
- `AVyCApplicationInput$setTestStatistics()`
- `AVyCApplicationInput$setDataFiles()`
- `AVyCApplicationInput$clone()`

**Method** `setEMail():`

*Usage:*

`AVyCApplicationInput$setEMail(eMail)`

**Method** `setBenchmarkModel():`

*Usage:*

`AVyCApplicationInput$setBenchmarkModel(model)`

**Method** `setReturnType():`

*Usage:*

`AVyCApplicationInput$setReturnType(returnType)`

**Method** setNonTradingDays():*Usage:*

AVyCApplicationInput\$setNonTradingDays(nonTradingDays = "later")

**Method** setTestStatistics():*Usage:*

AVyCApplicationInput\$setTestStatistics(testStatistics = NULL)

**Method** setDataFiles():*Usage:*

```
AVyCApplicationInput$setDataFiles(
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",
    market_data = "03_MarketData.csv")
)
```

**Method** clone(): The objects of this class are cloneable with this method.*Usage:*

AVyCApplicationInput\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Examples**

```
## Not run:
# get files for our S&P500 example; 3 files are written in the current
# working directory
getSP500ExampleFiles()

# Generate a new parameter object
avycParams <- AVyCApplicationInput$new()

# set test statistics
avycParams$setTestStatistics(c("aarptlz", "aarrankz"))

# Setup API object
apiKey <- "{Your API key}"
estSetup <- EventStudyAPI$new()
estSetup$authentication(apiKey)

# Perform Event Study
estSetup$performEventStudy(estParams = avycParams,
  dataFiles = c("request_file" = "01_RequestFile.csv",
    "firm_data" = "02_firmData.csv",
    "market_data" = "03_marketData.csv"))

# Download task results and save them in the actual working directory
estSetup$getTaskResults()

## End(Not run)
```

---

checkFile	<i>Check input data files</i>
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---

**Description**

Check correct column, date, and shape of the input data files

**Usage**

```
checkFile(path, type = "request_file")
```

**Arguments**

path	path to the input data file
type	the type of file to ckeck

**Value**

data.frame

**Examples**

```
## Not run:
# save example files to current working directory
getSP500ExampleFiles()

checkFile("01_RequestFile.csv", "request_file")

## End(Not run)
```

---

checkFiles	<i>Check EventStudy input files</i>
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---

**Description**

Check each input file plus inter file relations, whether market index and firm identifier in request file match market index in market\_data and firm identifier in in firm\_data file.

**Usage**

```
checkFiles(
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",
    market_data = "03_MarketData.csv"),
  returnData = F
)
```

**Arguments**

dataFiles        A named character vector. The names must be request\_file, firm\_data, and market\_data

returnData      returns the data as list of data.frames

**Examples**

```
## Not run:
# save example files to current working directory
getSP500ExampleFiles()

dataFiles <- c("request_file" = "01_RequestFile.csv",
              "firm_data"     = "02_firmData.csv",
              "market_data"  = "03_MarketData.csv")

checkFiles(dataFiles)

## End(Not run)
```

---

<code>estAPIKey</code>	<i>Set eventStudy API Key</i>
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---

**Description**

Set eventStudy API Key

**Usage**

```
estAPIKey(key)
```

**Arguments**

key              EventStudy API Key

---

<code>EventStudy</code>	<i>EventStudy</i>
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**Description**

This package provides functionality for doing Event Studies from R by using EventStudyTools.com API interface, parsing results, and visualize them.

**Details**

Start with the vignettes: `browseVignettes(package = "EventStudy")`

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EventStudyAddin	<i>RStudio Addin for performing an Event Study</i>
-----------------	--

---

**Description**

Call this as an addin to perform an Event Study on an interface in R. The interface is similar to our Event Study web interface <https://www.eventstudytools.com>.

**Usage**

```
EventStudyAddin()
```

---

EventStudyAPI	<i>API for <a href="https://www.eventstudytools.com">https://www.eventstudytools.com</a></i>
---------------	--

---

**Description**

R interface for performing Event Studies on <https://www.eventstudytools.com>.

For more details see the help vignette: `vignette("introduction_eventstudy", package = "EventStudy")`

**Format**

`R6Class` object

**Usage**

For usage details see **Methods, Arguments, and Examples** sections.

**Methods**

`new(apiServerUrl)` This method is used to create an object of this class with `apiServerUrl` as the url to the EventStudyTools server

`authentication(apiKey)` This method is used to authenticate at `apiServerUrl`. A valid `APIkey` is required. You can download a free key on our website: <https://www.eventstudytools.com>

`performEventStudy(estParam)` This method starts an Event Study. This method does all the analysis work for you

`performDefaultEventStudy()` This method starts a default Event Study. It is a wrapper around `performEventStudy`

`processTask()` This method starts the Event Study calculation on the server (after files are uploaded).

`configureTask(input)` This method configures the Event Study. `input` is an `ApplicationInputInterface` R6 object, e.g. ARC configuration class

`uploadFile(fileKey, fileName)` This method links to the file to upload. `fileKey` is the key of the file. Valid values are: `request_file`, `firm_data`, and `market_data`. `fileName` file name to upload.

`commitData()` This method commits the data to the server

`getTaskStatus()` Check if calculation is finished

`getTaskResults(destDir = getwd())` Downloads the result files of the Event Study to `destDir` (Default: current working directory).

## Arguments

**eventstudyapi** An EventStudyAPI object

**apiServerUrl** URL to the API endpoint

**apiKey** Key for authentication

**input** An ApplicationInputInterface object.

**fileKey** Type of input file: `request_file`, `firm_data`, and `market_data`

**fileName** Data filename

**destDir** Directory for saving result files

## Methods

### Public methods:

- `EventStudyAPI$new()`
- `EventStudyAPI$authentication()`
- `EventStudyAPI$performEventStudy()`
- `EventStudyAPI$performDefaultEventStudy()`
- `EventStudyAPI$processTask()`
- `EventStudyAPI$configureTask()`
- `EventStudyAPI$uploadFile()`
- `EventStudyAPI$deleteFileParts()`
- `EventStudyAPI$splitFile()`
- `EventStudyAPI$get_token()`
- `EventStudyAPI$commitData()`
- `EventStudyAPI$getTaskStatus()`
- `EventStudyAPI$getTaskResults()`
- `EventStudyAPI$getApiVersion()`
- `EventStudyAPI$clone()`

### Method `new()`:

*Usage:*

```
EventStudyAPI$new(apiServerUrl = NULL)
```

### Method `authentication()`:

*Usage:*

```
EventStudyAPI$authentication(apiKey = NULL)
```

**Method** performEventStudy():

*Usage:*

```
EventStudyAPI$performEventStudy(  
  estParams = NULL,  
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",  
    market_data = "03_MarketData.csv"),  
  destDir = "results",  
  downloadFiles = T,  
  checkFiles = F  
)
```

**Method** performDefaultEventStudy():

*Usage:*

```
EventStudyAPI$performDefaultEventStudy(  
  estType = "arc",  
  dataFiles = c(request_file = "01_RequestFile.csv", firm_data = "02_firmData.csv",  
    market_data = "03_MarketData.csv"),  
  destDir = "results",  
  downloadFiles = T,  
  checkFiles = F  
)
```

**Method** processTask():

*Usage:*

```
EventStudyAPI$processTask()
```

**Method** configureTask():

*Usage:*

```
EventStudyAPI$configureTask(estParams = NULL)
```

**Method** uploadFile():

*Usage:*

```
EventStudyAPI$uploadFile(fileKey, fileName, partNumber = 0)
```

**Method** deleteFileParts():

*Usage:*

```
EventStudyAPI$deleteFileParts(parts)
```

**Method** splitFile():

*Usage:*

```
EventStudyAPI$splitFile(fileName, maxChunkSize)
```

**Method** get\_token():

*Usage:*





```
## End(Not run)
```

---

```
EventStudyApplicationInput
```

```
Abnormal Return Calculation (ARC) API Wrapper
```

---

### Description

This R6 class serializes an Event Study parameter class to a list structure. This is an abstract class for Event Study applications (Return, Volatility, and Volume Event Studies). It is not intended to use this class directly. Please use: [ARCAApplicationInput](#).

### Format

[R6Class](#) object.

### Methods

`$new()` Constructor for EventStudyApplicationInput

`$setup()` Setup the parameter list

### Super class

[EventStudy::ApplicationInputInterface](#) -> EventStudyApplicationInput

### Methods

#### Public methods:

- [EventStudyApplicationInput\\$setup\(\)](#)
- [EventStudyApplicationInput\\$clone\(\)](#)

#### Method `setup()`:

*Usage:*

```
EventStudyApplicationInput$setup()
```

#### Method `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
EventStudyApplicationInput$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

---

getSP500ExampleFiles *This function copies the three csv files to the actual working directory. This example data is used as motivation for using Event Studies for Additions / Deletions to market indices.*

---

### Description

For more details see the help vignette: `vignette("introduction_eventstudy", package = "EventStudy")`

### Usage

```
getSP500ExampleFiles(targetDir = getwd())
```

### Arguments

targetDir        directory to save example files

### Details

or on our website: <https://www.eventstudytools.com/mergers-acquisitions>

### Examples

```
## Not run:  
getSP500ExampleFiles("data")  
  
## End(Not run)
```

---

ResultParser        *Parses request and results files returned from our Event Study API interface.*

---

### Description

This result file parser works currently only with csv files. Please read the vignette for further details (coming soon). We will restructure our result reports soon. So, this function may change dramatically. This object can be used for plotting your results.

### Format

`R6Class` object.

**Methods**

`new(dir)` This method is used to create object of this class with `dir` as the directory of result files.

`parseReport(path = "analysis_report.csv")` This method parses the analysis report file (`analysis_report.csv`).

`parseAR(path = "ar_results.csv")` This method parses the abnormal return file (`ar_results.csv`). Furthermore, it triggers `parseReport` and join firm and index name.

`parseCAR(path = "car_results.csv")` This method parses the cumulative abnormal return file (`ar_results.csv`). Furthermore, it triggers `parseReport` and join firm and index name.

**Methods****Public methods:**

- `ResultParser$new()`
- `ResultParser$parseRequestFile()`
- `ResultParser$parseReport()`
- `ResultParser$parseAR()`
- `ResultParser$parseCAR()`
- `ResultParser$parseAAR()`
- `ResultParser$parseCAAR()`
- `ResultParser$calcAARCI()`
- `ResultParser$cumSum()`
- `ResultParser$createReport()`
- `ResultParser$clone()`

**Method new():**

*Usage:*

`ResultParser$new()`

**Method parseRequestFile():**

*Usage:*

`ResultParser$parseRequestFile(path = "01_RequestFile.csv")`

**Method parseReport():**

*Usage:*

`ResultParser$parseReport(path = "analysis_report.csv")`

**Method parseAR():**

*Usage:*

`ResultParser$parseAR(path = "ar_results.csv", analysisType = "AR")`

**Method parseCAR():**

*Usage:*

`ResultParser$parseCAR(path = "car_results.csv", analysisType = "CAR")`

**Method parseAAR():***Usage:*

```
ResultParser$parseAAR(  
  path = "aar_results.csv",  
  groups = NULL,  
  analysisType = "AAR"  
)
```

**Method parseCAAR():***Usage:*

```
ResultParser$parseCAAR(  
  path = "caar_results.csv",  
  groups = NULL,  
  analysisType = "AAR"  
)
```

**Method calcAARCI():***Usage:*

```
ResultParser$calcAARCI(  
  statistic = "Patell Z",  
  p = 0.95,  
  twosided = T,  
  type = "zStatistic"  
)
```

**Method cumSum():***Usage:*

```
ResultParser$cumSum(  
  df,  
  var = "aar",  
  timeVar = NULL,  
  cumVar = NULL,  
  fun = cumsum  
)
```

**Method createReport():***Usage:*

```
ResultParser$createReport(file = "EventStudy.xlsx")
```

**Method clone():** The objects of this class are cloneable with this method.*Usage:*

```
ResultParser$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Examples**

```
## Not run:
# Assume you already performed an Event Study and result files are saved in
# the actual working directory.
estParser <- ResultParser$new()

# parse request file
estParser$parseRequestFile("01_RequestFile.csv")

# parse result files
estParser$parseReport("Analysis report.csv")
estParser$parseAR("AR results.csv")
estParser$parseAAR("AAR results.csv")

## End(Not run)
```

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